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CHIEF OFFICE,  
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TELEGRAPHIC  
ADDRESS  
CHEMIST LONDON.

# THE CHEMIST AND DRUGGIST

ESTABLISHED IN

ENGLAND ... 1859.

AUSTRALASIA ... 1885.

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No. 789. VOL. XLVI.

JUNE 1, 1895.

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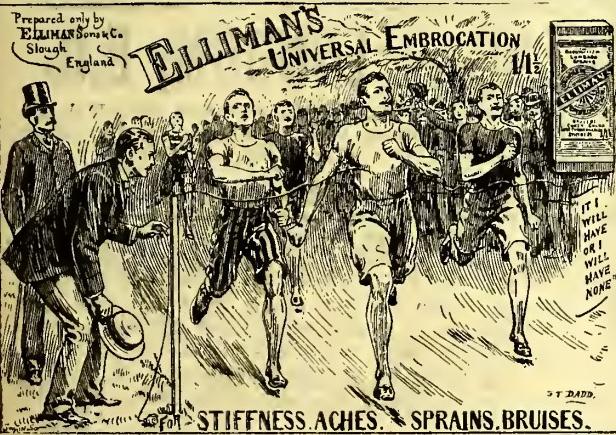
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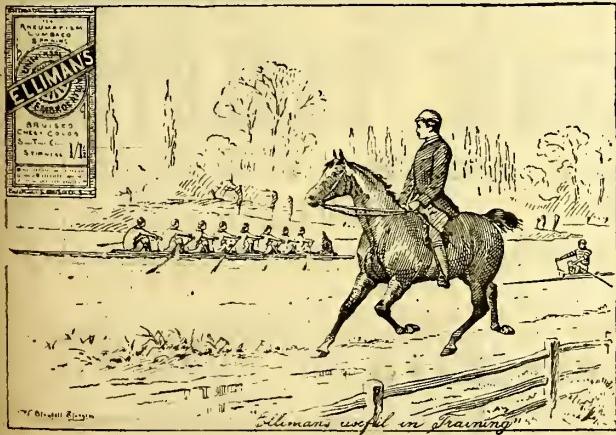
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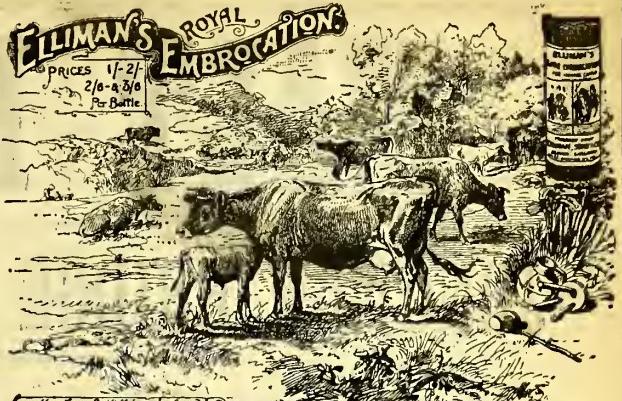
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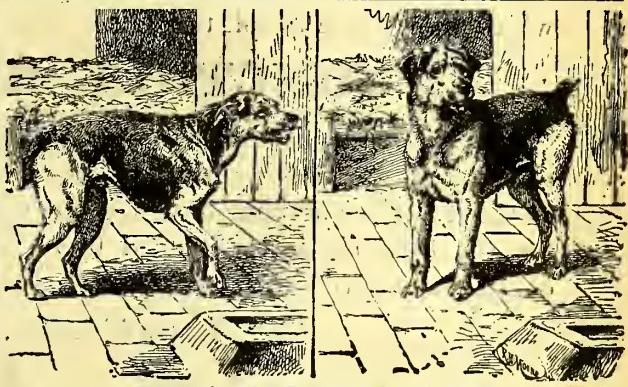
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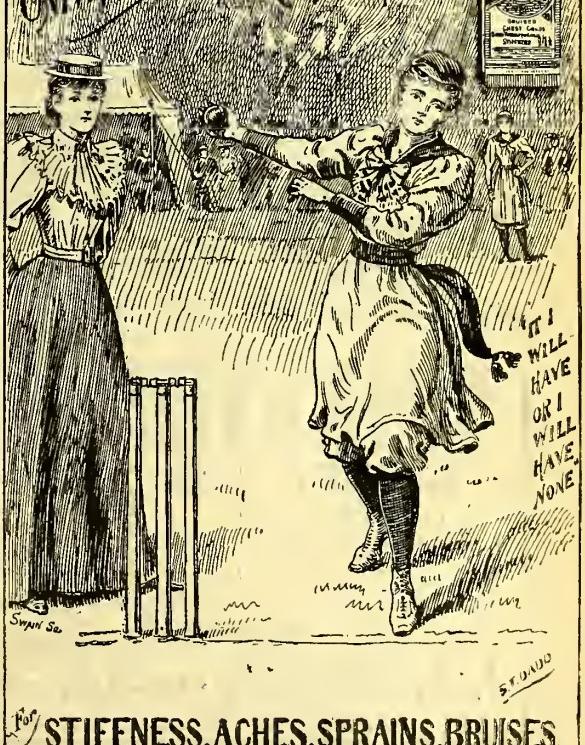


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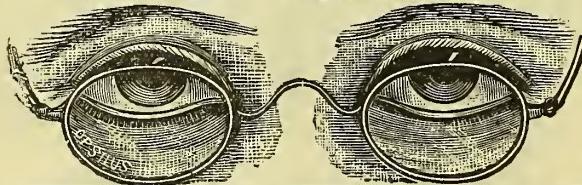
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which so admirably meets the needs of  
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# What

“THE CHEMIST AND DRUGGIST”

“PEARS’ PUZZLE-BOX.—Messrs. A. & F. Pears (Limited) have been advertising during the past week an advertising novelty, which they send to applicants for seven penny stamps. We wish, by the way, they had given the distribution to chemists; it would have brought plenty of customers in. The principal thing in the box is the spectrum top, a disc of cardboard, half of which is jet black, and on the white half are twelve segments of concentric rings. When the disc is revolved one sees red, green, grey, and purple rings on the top, but the colours really vary according to the quality of people’s eyes and the rapidity of the revolutions. Two persons have in our presence detected pink, green, cardinal-red, crimson, grey, blue, heliotrope, and many more would doubtless be observed, provided one gazed long enough. Such a delightful spectacle it would be to get a roomful of people to note down what colours they make out of this black and white disc, then compare notes. The other contents of the box are Pears’ bicycle-wheels, deceptive geometrical figures, misleading railway track, tumbling cubes, and Yorick’s skull. This week Professor Crum Brown has delivered the fourth Robert Boyle Lecture at Oxford on ‘The Relation between the Movements of the Eyes and the Movements of the Head.’ We wonder if Pears’ box was used in the demonstrations; the contents would admirably apply.”—*The Chemist and Druggist*, May 18, 1895.

# says

*See opposite page.*

# An Evening's Entertainment for Sixpence.

## PEARS' BOX OF OPTICAL ILLUSIONS

This Box contains six scientific Optical Illusions, which afford an interesting, amusing, and instructive entertainment for a whole evening.

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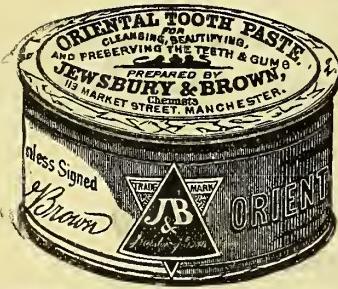
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The ORIGINAL and by far the BEST STICKY FLY PAPER in the MARKET.



WELL KNOWN IN EVERY HOUSEHOLD IN THE KINGDOM.  
ANNUAL SALE MILLIONS. BEARS LARGE PROFITS.

"The best test as to the efficacy of a Sticky Fly Paper is the length of time that it will retain its moisture and adhesiveness upon exposure to the air. We invite our friends to thus test our Paper against that of *any* rival manufacture by opening out the various samples and placing them side by side in the sun. We think it will be found that the 'Cemetery' will answer this test the most efficiently, and will not speedily become a mere *Skating Rink* for the Flies to amuse themselves upon."

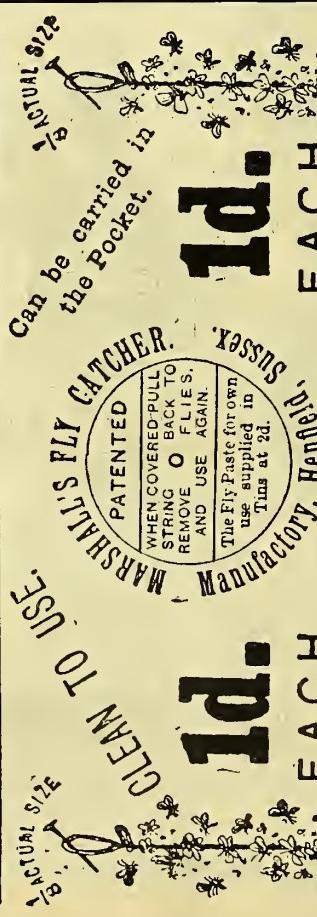
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**IMPORTANT NOTICE.**  
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IS NOT OFFENSIVE TO THE SIGHT.

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DOES NOT SPOIL BY KEEPING.

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Last year I had to bring actions against a few Chemists and others for acts of gross substitution. I give below an example.

Such conduct is a loss as well to the neighbouring Chemists as myself. I am bound to stop it. If you are aware of any person acting in this manner may I ask you to warn him; or if information be given to me I will hold it absolutely confidential, and take independent steps to prevent the fraud.

**THOMAS KEATING.**

---

## **KEATING v. WRIGHT (NEWCASTLE).**

MR. JUSTICE NORTH, on the 14th February, 1894, in giving Judgment, said: "There was no difference in principle between verbal representation and representations in writing for the purpose of passing off goods of one person as those of another. . . . He therefore granted an Injunction to restrain the Defendant from selling or offering for sale, as Keating's Insect Powder, powder not made by the Plaintiff, and ordered the defendant to pay the costs of the action"

# **FLYODOOMO**

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# **FLYODOOMO**

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# **FLYODOOMO**

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## **SMITH'S FLY STICKERS**

The Cleanest, Stickiest, and Best Fly Papers in the Market. Carefully rolled up so that the Composition cannot possibly get outside. Own Name and Address on 100-gross quantities.

Large Buyers should write for Samples and Quotations.

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## **MAKER OF SUPERIOR FLY LIME.**

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### **WISE SAYINGS WITH A MODERN APPLICATION.**

"Health is the reward of cleanliness," and this is gained by using Buchan's Fly Enticer.

BUY THEREFORE

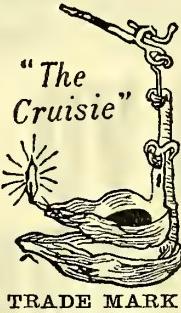
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**1d. 1d.**

Fly  
Enticer  
Gum.

Tins 2d. each.

The  
Surest and Best  
Fly Catcher.



TRADE MARK  
(Registered).

*Send for Samples NOW, Post Free.*

**Death  
Jam.**

Kills Wasps,  
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Tins, 6d, 1/-, and  
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MACHINE-MADE FLY PAPERS, the  
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For External and Internal Irritation of every kind.

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No more Weeds! Noxious Vegetation of every description permanently destroyed by one application.

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IS RECOMMENDED BY

*Mr. W. G. HEAD, Crystal Palace,  
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And others, for destroying Weeds on Garden Walks, Carriage  
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*One application will keep Walks, &c., clear of Weeds for Eighteen Months.*

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If desired we can supply the "ACME" WEED KILLER double strength  
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Carriage paid on 6 gall. in tins, or 5 gall. in drum.

### POWDER WEED KILLER.

One small canister sufficient for 25 gall. water. Specially suitable for  
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**THE ACME CHEMICAL CO., LIMITED,  
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AGENTS WANTED EVERYWHERE.

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PURE CARBOLIC ACID  
DISINFECTING POWDER**

A most certain and Powerful  
Disinfectant, excelling all others  
in Purity,  
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Used by the Principal Hospitals and Sanitary  
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1/- Tins, 15 per cent. Pure Carbolic Acid, 5/6 per  
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Sample Tin 12 stamps, with Analytical Report.

Special quotation for 2 cut, and upwards.

AGENTS WANTED.

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EDINBURGH, 1890.

BOTH  
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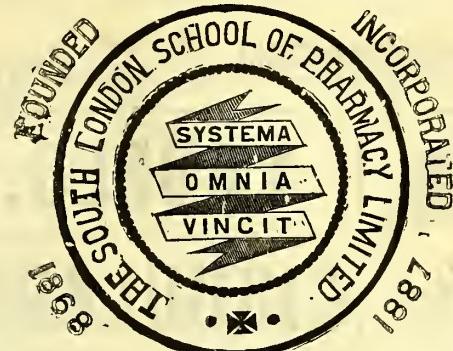
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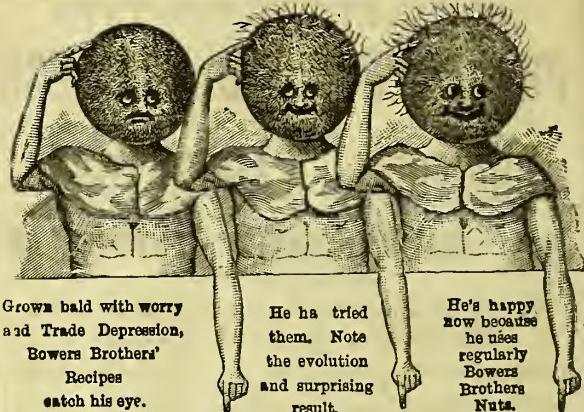
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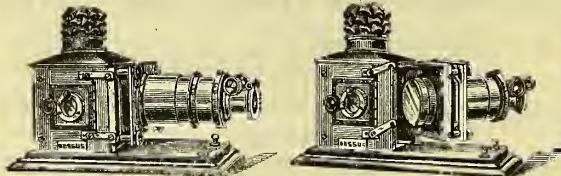
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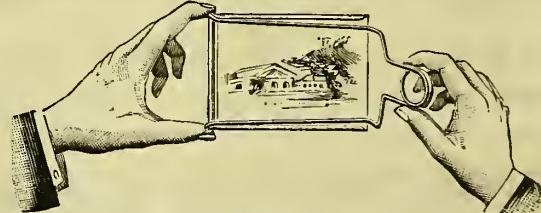


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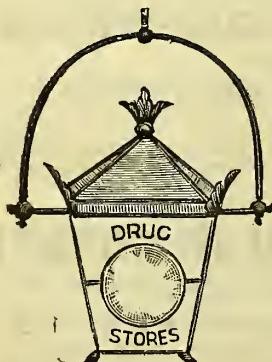
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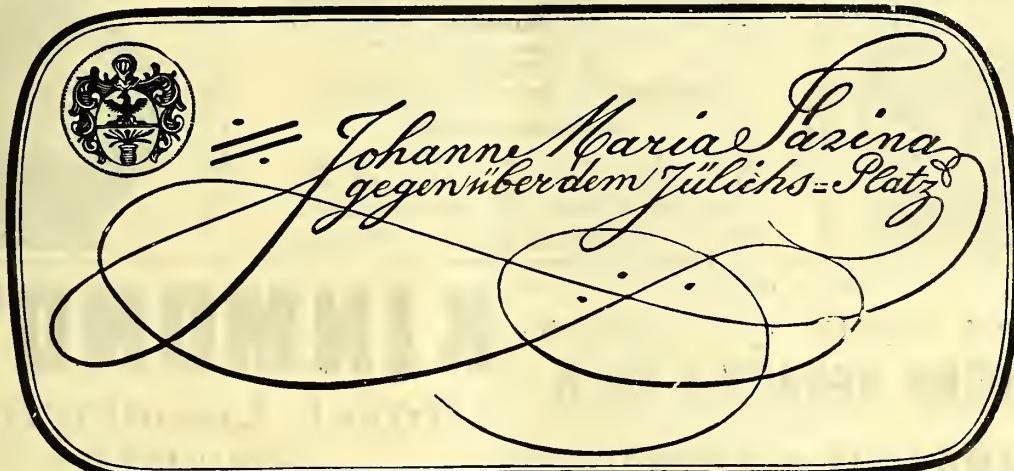
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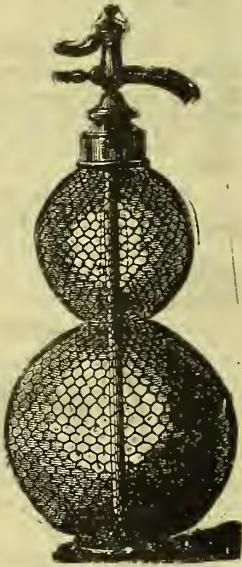
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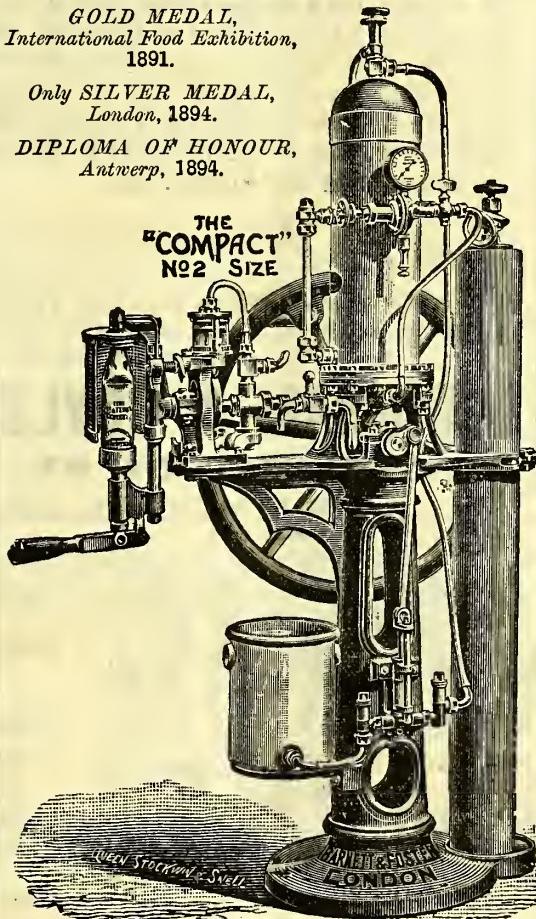
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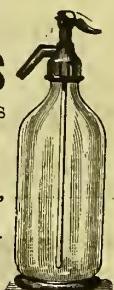
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**INDEX TO ADVERTISEMENTS APPEARING IN THIS ISSUE.**

**NOTE.**—The Folios shown in this Index are those at the FOOT of the Page, and not at the Top. This arrangement is necessary in order to meet the requirements of the Post Office.

Foot of Page	Foot of Page	Foot of Page	Foot of Page
Aome Chemical Co. .... 14	Cook, Edward, & Co. .... 53	Jawsbury & Brown .... 8	Quibell Bros. .... 57
Advertising Balloon Co. .... 16	Corsan, J. R. .... 4	Josephus, P. .... 4	Raphael, J., & Co. .... 4
Airs & Co. .... 16	Cosmosine Co. .... 56	Kihnenmaa & Krause .... 45	Reniu, T. .... 52
Anderson & Co. .... 4	Cotton, W. .... 14	Kay Bros. (Lim.) .... 42	Robare, J. .... 48
Anglo-American Drug Co. (Lim.) .... 43	Cox, A. H., & Co. .... 38	Keating, T. .... 12	Robbins & Co. .... 45
Apollinaris Co. (Lim.) .... Cover	Critchley, T. .... 30	Kent, G. B., & Sons .... 47	Robitson & Sons. .... 47
Armour & Co. .... 31	Crocker & Co. .... Col. Sup.	Kittman & Co. .... 20	Rypoua .... 57
Assistants Wanted .... Col. Sup.	Day & Sons .... 55	Kirtley, J. C. .... 5:	Sanger & Sons .... 40
Austin & Co. .... 52	Day, Son & Hewitt .... 51	Kumchacian Caloric .... 56	Sautas Co., The (Lim.) .... Text 766
Baker, J. W. .... 57	Dee Oil Co. (Lim.) .... 14	Krohne & Sesemann .... 46	Sauders Bros. .... 56
Barclay & Sons (Lim.) .... 48	De St. Dalmas, A. E. .... 46	Lake, Millar & Co. .... 57	Shirley Bros. .... 49
Barnett & Foster .... 21	Di Lugro, D., & Co. .... 25	Lambert & Co. .... 45	Singleton & Cole .... 56
Barratt, R. H. .... 51	Dodge & Olcott .... 33	Lanior, Anderson & Co. .... 56	Smith, J. H. .... 13
Barry, A. .... 56	Eastman Photo Co. .... 18	Lauolue .... 33	Smith, T. & H., & Co. .... 39
Battle & Co. .... 43	Elliman, Sons & Co. .... 3, Text 766	Levermore, Aug., & Co. .... 56	South London School of Pharmacy (Lim.) .... 15
Bennett, Sons & Shears (Lim.) .... 50	Eschmann Bros. & Walsh .... 46	Lofoden Cod Liver Oil Co. .... 57	Southall Bros. & Barclay .... 30
Berdie & Co. .... Col. Sup.	Exchange Column .... 18	Lofthouse & Saltmer .... 39	Sozio & Andrioli .... 8
Bishop, A., & Sons (Lim.) .... 35	Farina, J. M. .... 19	London Homeopathic Hospital .... 8	Squire, P. W. .... 15
Blackfriars Photographic Co. .... 17	Ferguson & Osborne .... Col. Sup.	Lorimer & Co. .... 41	Standard Malt Co. .... 40
Bleadale & Co. .... 11	Ferratin .... 45	Macfarlan & Co. .... 39	Stevenson, H. E., & Co. .... 56
Blondeau & Co. .... 9	Fink, F., & Co. .... 56	McKay, W. .... 57	Stipendum Stopper Co. .... 51
Boehm, F. .... 8	Fletcher, Fletcher & Co. .... 5, Text 766	Manchester School .... 15	Strong, Christy .... 13
Boehringer & Sohne .... 44	Gardiner, C. .... 56	Marshall, E. .... 10	
Boord & Son. .... 49	Gardner, W. .... 50	Martin, W. .... Text 766	
Boulton, J., & Co. .... 24	Geraut & Co. .... 23	Mason, C. E., & Co. .... 54	
Bovril (Lim.) .... 29	Gibson, R., & Son .... 26	Mawson Fitter Co. .... 31	
Bowdlear & Co. .... 46	Glendenning & Son .... 56	May & Baker (Lim.) .... Cover	Thielay, E. H. .... 56
Bowers Bros. .... 16	Glover, C. H., & Co. .... 52	May, Roberts & Co. .... Cover	Tidman & Son. .... 51
Bowley, S., & Son .... 45	Goodall, Backhouse & Co. .... 24	Melin, O. .... 50	Townlinson & Hayward .... Text 766
Bramwell & Son .... 56	Halford & Son .... 24	Mellin, G. .... 23	Townsend, J. .... 16
Bratby Hinchliffe (Lim.) .... 20	Hargreaves, Dr. .... 15	Metropolitan School .... 15	Trade Mark Society .... Text 766
Brett, F. J. .... Col. Sup.	Harker, Stagg & Morgan .... 45	Millar, A., & Co. (Lim.) .... 30	Tubridge & Wright .... 10
British Paper Co. .... 43	Hearon, Squire & Francis .... 34	Morrison, R., & Co. .... 42	Tyler, P. .... 25
British Syphon Co. .... 22	Hermanine .... 42	Moss, J., & Co. .... Text 766	Tyret, T., & Co. .... 39
Browne, T. B. .... Text 766	Hertz & Colingwood .... 22	Ness & Co. .... 56	Vaccina Association .... 42
Buchan, D. D. .... 15	Hewlett, C. J. & Son .... 44	Newberry & Sons .... 49	Velutina .... 53
Burrough, J. .... 49	Hill, J. .... 43	Newcastle School .... 13	
Burroughs, Wellcome & Co. 32, 33, 34	Hooper & Co. .... Cover	Nicholls, G. W. .... 56	
Burrow, W. & J. .... 8	Hora & Co. .... Text 766	Northern School .... 15	
Cadbury Bros. .... Cover	Howards & Sons .... 37	Nortons (Lim.) .... 42	
Casper & Co. (Lim.) .... 16	Hubbuck, T., & Son (Lim.) .... 44	Odams' Chemical Co. (Lim.) .... 54	
Cerebos Salt Co. (Lim.) .... 24	Hughes, E. G. .... 57	Orridge & Co. .... Col. Sup.	Warrick Bros. .... Text 766
Champion & Co. (Lim.) .... 57	Idris & Co. .... Text 766	Pears, A. & F. (Lim.) .... 6, 7	Washington Chemical Co. (Lim.) .... 57
Christy, T., & Co. .... 57	Ingram & Royle .... 22	Philips, G., & Co. .... 49	Watson & Wates .... 57
Cole's Pneumatic Shield Co. .... 48	Isaacs, I., & Co. .... 50	Pfaster, F. .... 47	Wilcox, H. W., & Co. .... 50
Condy & Mitchell (Lim.) .... 35	Izal .... 54	Wood, V. .... 45	Wilkinson's Sarsaparilla .... 56
	Jacks, T. .... 46	Woolley, J., Sons & Co. .... Cover	
		Wright, Layman & Umney .... Cover	

**CLASSIFIED LIST OF ALL ADVERTISERS**

<b>ACETIC ACID</b> Lorrens, H. Morris & Culler, (341-2)	<b>BANDAGES</b> Bailey, W. H., & Son Domeni Bel Co. Herrick & Co., Lim., ("Shoot") Robinson & Sons Sohnitz, F., & Co. Wood, Vincent	<b>BOOKS</b> Hargreaves, Dr., M.D. Heinemann,   Müller, W.P. Leggett, W.T. Martindale's Extra Pharmacopoeia Squire's "Companion"	<b>CARBOLIC ACID</b> Mason, C. E., & Co. Stevenson, H. E., & Co. [Lim. Wandsworth Chemical Works,
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Mawson Filter Co.

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Ford, Shopland & Co.

Marshall, E.

May, Roberts & Co.

Newberry, F., & Sons

Patterson & Co., Lim.

Quelch, H. C.

Eyton & Son

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Tunbridge & Wright

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Warrick Bros.

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Mawson Filter Co.

Michael, D. D.

Quelch, H. C.

Shirley Bros. | Youldon, E.

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Pharmacy, Lim.  
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London Homeopathic and  
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Manchester Col. of Pharmacy  
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Redford & Son (Gloss)

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Austin & Co (Sprinklers)  
Barnett & Foster

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Melin, C. | Orchard, E. (Poison)

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Joye's Sanitary Compounds Co.

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Pearce, A. & F., Lim.

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**TERMOMETERS**

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**TERMOMETERS**

Barclay & Sons, Lim.

**TERMOMETERS**

Brownies, Wellcome & Co.

**TERMOMETERS**

Cooking, J. T.

**TERMOMETERS**

Ellwood Lee, J., Co.

**TERMOMETERS**

Ferris & Co. | Harris, J.

**TERMOMETERS**

Hatrick & Co., Lim.

**TERMOMETERS**

Haywood, J. H.

**TERMOMETERS**

Kahnenmann & Krense

**TERMOMETERS**

Lambert, A., & Co.

**TERMOMETERS**

Liverpool Patent Lint Co.

**TERMOMETERS**

Macfarlan, J. F., & Co.

**TERMOMETERS**

Mackay, Mackay & Co.

**TERMOMETERS**

Spurts (Dogs)

**TERMOMETERS**

Tomlineon, Theo., & Son

**TERMOMETERS**

Willeton, S. (Pig Powders)

**TERMOMETERS**

Wood, Vincent

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**TOILET**

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**TOILET**

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**TOILET**

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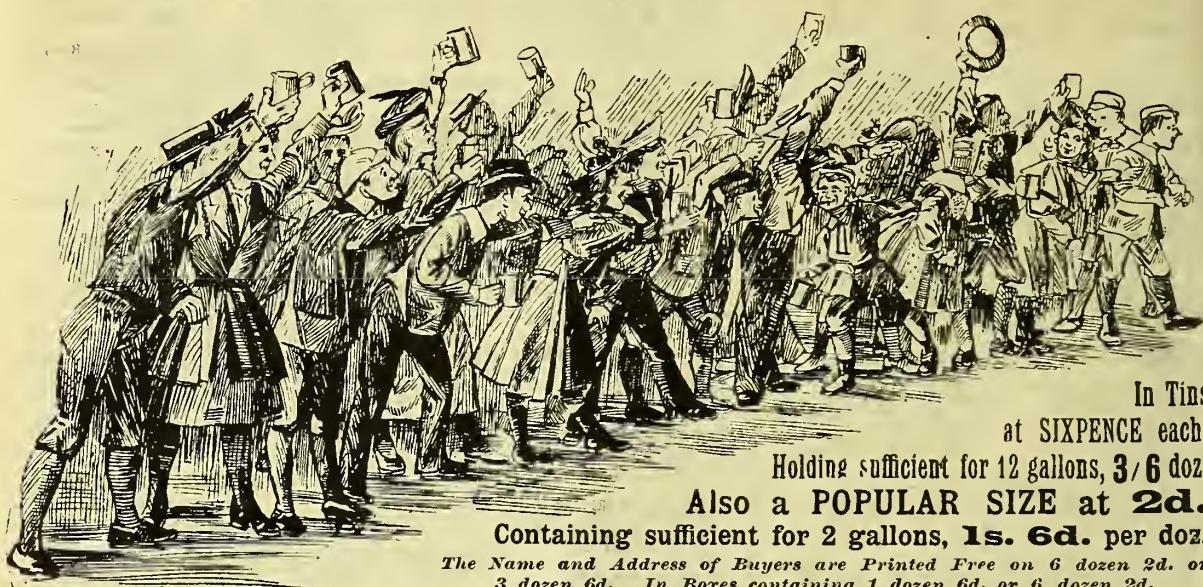
It is the most perfect form of concentrated nourishment at present known, and is enjoyed by Invalids when ordinary food and stimulants are rejected.

**BOVRIL, LIMITED, Food Specialists, LONDON.**

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Holding sufficient for 12 gallons, 3/6 doz.

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**GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.**

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SOLD BY ALL WHOLESALE DEALERS.**A. MILLAR & CO., LTD., DUBLIN.****PURE ORANGE WINE**

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NO MORE SOFT LINEN WHEN STARCHED.

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**STARCH GLOSS**

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Guaranteed five times B.P. strength.

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3 GRAINS EACH.

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**CHEMISTS**

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3,000 Test 5 times B.P.

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Armour & Co. guarantee their Standard Pepsin to answer the new U.S.P. test, and to be 5 times the strength of Pepsin B.P.

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HYPODERMIC "Tabloids" obviate the many objections to ready-made solutions, and meet every possible requirement. Time and again it has been shown that solutions which have been made for some time cannot be used without incurring grave risks. By using Hypodermic "Tabloids" a solution may be made with ease and celerity at the time of using, thus doing away with the possibility of deterioration and the consequent production of untoward effects. Each "Tabloid" contains an absolutely exact quantity of alkaloid or other agent, combined with a perfectly stable and innocuous base. That the active principle must be pure goes without saying, but it is also a *sine quâ non* that the basis used should be completely inert. The presence of an extraneous substance for the purpose of either hastening disintegration or aiding the dissolution of principles which, though therapeutically powerful, are yet delicate of constitution, is highly objectionable; indeed, an acid salt is likely to be positively injurious to the system when subcutaneously introduced, even if it do not interfere with the action of the drug with which it may be associated. The *British Medical Journal* reports on Hypodermic "Tabloids" that they are "free from irritative acid salts," thus recognising this very important characteristic; and the *Lancet* also says of them that they are "very soluble and not at all irritating." Further, "Tabloids" obviate the possibility of over-dosage, since each contains one dose and no more.

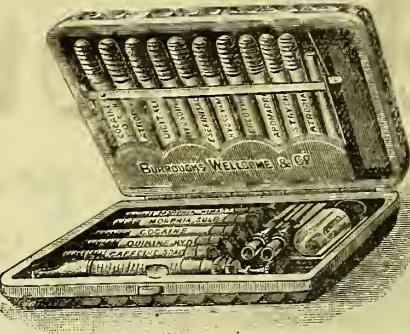
### LIST OF HYPODERMIC "TABLOIDS."

a Aconite Nitrate .....	1-260 gr.
a Apomorph. Hydroch. ....	1-10 gr.
a Apomorph. Hydroch. ....	1-15 gr.
a Atropine Sulphate ....	1-150 gr.
a Atropine Sulphate ....	1-100 gr.
a Atropine Sulphate ....	1-60 gr.
*Caffeine Sodio-salicyl. ..	1-2 gr.
Cocaine Hydrochlorate ..	1-10 gr.
Cocaine Hydrochlorate ..	1-6 gr.
*Cocaine Hydrochlorate ..	1-4 gr.
*Cocaine Hydrochlorate ..	1-2 gr.
b Codeine Phosphate .....	1-4 gr.
b Colchicin .....	1-100 gr.
b Cornutin Hydroch. ....	1-60 gr.
Curare.....	1-12 gr.
Digitalin Crystalline....	1-100 gr.
Ergotinin Citrate .....	1-100 gr.
b Ergotinin Citrate .....	1-200 gr.
Eserina Salicylate .....	1-100 gr.
b Homatropin Hyd. ....	1-250 gr.
a Hydrag. Perchlor. ....	1-60 gr.
a Hydrag. Perchlor. ....	1-30 gr.
b Hydrag. Sozioidol .....	1-4 gr.
a Hyoscine Hydrobrom. ....	1-200 gr.
*a Hyoscine Hydrobrom. ....	1-75 gr.
b Hyoscine Hydrobrom. ....	1-10 gr.
*b Hyoscamine Sulph. ....	1-80 gr.
b Hyoscamine Sulph. ....	1-20 gr.
b Morphine Bimeconate ..	1-8 gr.
b Morphine Bimeconate ..	1-6 gr.
b Morphine Bimeconate ..	1-4 gr.
b Morphine Bimeconate ..	1-3 gr.
a Morphine Hydrochlor. ....	1-4 gr.
a Morphine Hydrochlor. ....	1-6 gr.
Hypodermic "Tabloids" supplied in tubes of non-actinic glass, each containing 20 "Tabloids" (except those marked with asterisks, which contain only 12). Those marked a, /6 per tube; those marked b, /8 per tube.	
† The prices of Pilocarpine "Tabloids," 1-10 gr., 1-6 gr., and 1-3 gr. are 1/1, 3/2, and 3/8 per tube respectively.	

*Hypodermic "Tabloids"* supplied in tubes of non-actinic glass, each containing 20 "Tabloids" (except those marked with asterisks, which contain only 12). Those marked a, /6 per tube; those marked b, /8 per tube.  
† The prices of Pilocarpine "Tabloids," 1-10 gr., 1-6 gr., and 1-3 gr. are 1/1, 3/2, and 3/8 per tube respectively.

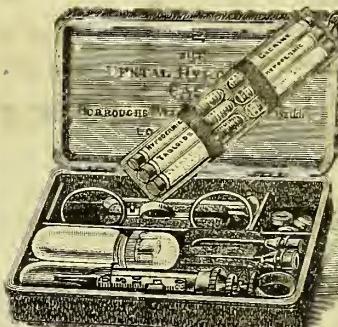
*Hypodermic "Tabloid" Equipment*, but at the same time occupy so little bulk that the presence of one of them in the pocket is scarcely felt. Each case contains a Syringe with two Needles, a selection of Hypodermic Agents in

"Tabloid" form, and a Mortar and Pestle for crushing the "Tabloids." The accompanying block represents the



"Miniature" case in aluminium, designed to hold, in addition to the Syringe and Needles, fifteen tubes of assorted Hypodermic "Tabloids." It measures only  $3 \times 2\frac{1}{4} \times \frac{3}{4}$  inches, and is the smallest and most compact case yet produced. The cost of the case is 18s.

*The Hypodermic Case* for Dentists. Although of comparatively recent introduction this Case has already become popular among Medical Men and Pharmacists who devote attention to Dentistry. Its convenience and portability will be apparent when it is considered that although it measures only  $4\frac{3}{4} \times 2\frac{3}{4} \times 1\frac{1}{4}$  inches, it furnishes a



complete hypodermic armamentarium for use in dental practice. The contents of the Case comprise a specially constructed syringe with both curved and straight incorrodible needles; a removable syringe-holder (a unique feature); Hypodermic "Tabloids" of Cocaine Hydrochlorate, 1-4 and 1-2 gr.; Atropine Sulphate, 1-60 gr.; Apomorphine, 1-10 gr.; Caffeine Sodio-salicylate, 1-2 gr.; Morphine Sulphate, 1-4 gr.; and a small Glass Mortar and Pestle. Price 21s.

Considerable attention has lately been called to a mode of administering the *Sub-lingual Method of Administration*. "Tabloids" which should be much more widely known than it appears to be at present—namely, by placing them under the tongue. Either the "Tabloid" itself may be placed in its entirety beneath the tongue, or a solution of it may be made in the usual way and a few drops allowed to fall under that organ. There are many cases in which this method will be found of infinite service and even preferable to injection subcutaneously, on account of the unfavourable impression often created upon the mind of the patient by the latter method, and the effect such a feeling may have upon the general condition. It is believed that if the efficiency and celerity of effect shown by this method were only made more generally known it would be practised to a very large extent, and would be of considerable use in dealing with a certain class of patients.

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# "LANOLINE,"

**Every Chemist**

SHOULD USE

**"LANOLINE" AS AN OINTMENT BASE,**  
AS IT

never turns rancid;

admits of the admixture of any quantity of water;  
confers stability and permanence on ointments prepared with it.

## **UNGUENTUM LANOLINI**

**is an Ointment**

WHICH CONSISTS OF

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UNGTT. LANOLINI is comparatively inexpensive.

UNGTT. LANOLINI is non-sticky.

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**A SUPERIOR PREPARATION FOR THE SKIN.**

IN TUBES CONVENIENT FOR USE IN  
**SUNBURN, CHAFING, CHAPPING, REDNESS, AND  
WRINKLING OF THE SKIN.**

"LANOLINE" and its preparations, Soaps, Pomades, &c., can be obtained from

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**THE KEPLER EXTRACT OF MALT**

is made from barley and only barley—not from "jumbles"—by a special process—the Kepler. We have stated these facts before, but they will bear repetition, and will explain to the new generation of pharmacists why the Kepler group of food nutrients is so constant in composition, of such excellent quality, and ever increasing in popularity with physicians all over the globe. This is why the Kepler products are so frequently seen on prescriptions; but this is not the result of any happy accident. On the contrary, it is the natural outcome of constant care and watchfulness to use the right material, the right method, and the right skill to carry it through. Further, we have distributed an enormous amount of literature regarding these products, so as to create the demand for them and to place them absolutely among the most saleable and profitable items to be found in the pharmacy.

Official Text of the award conferred upon Kepler Extract of Malt at the Chicago Exposition, 1893.

"For high starch-converting or diastatic power combined with excellent flavour and odour."

*The Kepler Extract of Malt supplied to the Trade in Bottles (two sizes) at 20/- and 35/- per dozen.*

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**ANALYTICAL & MANUFACTURING CHEMISTS**

**SPECIALITIES—“HERON” BRAND.****EMULSION OF PETROLEUM,**

With the Hypophosphites of Lime and Soda.

**ESS. PRO MIST. FERRI CO.**

It has the strong odour and bitter aromatic taste of good quality myrrh combined with the fragrant smell of volatile oil of nutmeg.

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## AS AN OFFICIAL JOURNAL

THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY

## CONTENTS: Vol. XLVI. No. 22.

PAGE		PAGE	
A New Baronet .....	759	Irish News .....	756
A Talk with Mrs. Winslow .....	763	Legal Reports .....	760
Bankruptcy Reports .....	761	Literary Notes .....	776
Belfast Exhibition .....	758	London's Sewage .....	777
British Pharmaceutical Conference .....	759	Marriage .....	762
Business Changes .....	762	Midland Pharmaceutical Association .....	775
Constructive Criticism of the British Pharmacopœia:—		New Companies and Company News .....	774
Pills. By J. G. F. Richardson .....	770	New Pharmaceutical Councillors .....	764
Correspondence .....	781	Next Week .....	781
Deaths .....	762	Photographic Notes .....	765
Deeds of Arrangement .....	762	Quain on the B.P. .....	772
Editorial Comments:—		Recent Patents .....	764
A Clean Sweep—Mainly .....	766	Scotch News .....	756
Summer Trade .....	767	The Pharmaceutical Council and Pharmacopœia Revision .....	771
The Pharmaceutical Society .....	768	Trade-marks Applied for .....	784
English News .....	754	Trade Notes .....	773
Foreign and Colonial News .....	757	Trade Reports .....	778
Formalin as a Preservative .....	763		
Gazette .....	762		

## APRIL POSTCARD COMPETITION.

THE task which we set for April has been too hard a one for competitors. It was to arrange the names of the candidates for the Pharmaceutical Council as they thought they would appear when the poll was declared. Mr. E. Stephens, 9 Gladsmuir Road, Whitehall Park, N. (an employé of the Crown Perfumery Company), has succeeded in placing eight correctly. His list (written on April 18) is as follows:—

- |                      |                   |
|----------------------|-------------------|
| 1. W. Martindale     | 10. W. Hills      |
| 2. M. Carteigne      | 11. J. R. Young   |
| 3. Atkins, Salisbury | 12. N. M. Groe    |
| 4. Bottle, Dover     | 13. T. Bateson    |
| 5. J. Harrison       | 14. Richardson    |
| 6. Southall          | 15. Corder        |
| 7. C. B. Allen       | 16. A. L. Savory  |
| 8. R. Hampson        | 17. A. S. Campkin |
| 9. Newsholme         | 18. Wills         |

Mr. J. F. Marlar, Halstead, Essex, and Mr. George E. Grattan, Blaenau Festiniog, have each placed seven names correctly. In reckoning the cards we have ignored Mr. Richardson's name, those that follow it being put up a place. Under the conditions of the competition Mr. Stephens gets a guinea, and between the other gentlemen named we divide a second prize of half-a-guinea. We have still so much material in hand from previous competitions that we must give postcardians a rest this month. This will enable us to get rid of conundrums, counter-practice prescriptions, and a mountain of poetical contributions received in May.

## Summary.

CAFFEINE has been synthesised (p. 769).

THERE is more about argon and helium on pp. 756 and p. 769.

A SYNDICATE has been formed to "corner" canary-seed (p. 778).

TWO Edinburgh chemists are at law regarding cod-liver oil emulsion (p. 757).

A HALF-HOLIDAY BILL is proposed at the Cape, but is vigorously objected to (p. 755).

A NEW company has been registered for the purpose of opening drug-stores at Cardiff (p. 774).

LONDON has more sewage to deal with than any other city in the world, and how it is done is shown on p. 777.

A "CHEMIST AND DRUGGIST" representative has been to see Winslow's syrup made, and relates his experiences on p. 763.

WE print an extract from a paper which shows that formalin is a better milk-preserved than boric and salicylic acids (p. 763).

WE print an illustrated description of the exhibition now open in Belfast, which contains many things interesting to the drug-trade (p. 758).

THERE has been opposition to increasing the salary of Mr. Dibdin, chemist to the London County Council, and he gets only 100l. more (p. 754).

THERE is a dispute about the selling-rights of Franz Josef water, which has been the subject of an application to Mr. Justice Stirling (p. 760).

AMERICAN wholesalers are making a resolute attempt to put down syndicates of retailers formed to buy proprietaries from the manufacturers (p. 757).

THE Midland Pharmaceutical Association had a poorish report to pass at the annual meeting on Wednesday. The members snipped afterwards (p. 775).

A RUSSIAN gentleman, who claims to have discovered a method for producing colour in photography, is trying to get chemists to buy his useless stuff (p. 769).

IN the action Hopkinson *v.* Bleasdale, which was regarding the quality of birdlime for sticky fly-papers, a verdict has been given for the defendants (p. 780).

THE Pharmaceutical Council have approved of a list of omissions from the B.P. drawn up by their Pharmacopœia Committee (p. 771). We comment upon the list on p. 766.

WE give portraits of Mr. Octavius Corder and Mr. A. L. Savory, the new members of the Pharmaceutical Council (p. 764); also of Sir John T. Brunner, M.P., the new baronet (p. 759).

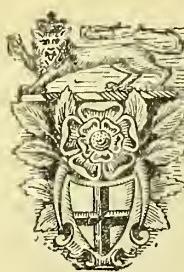
THE arrangements for the meeting of the British Pharmaceutical Conference at Bournemouth are practically complete, and have been discussed by the Executive Committee (p. 759).

A PHARMACEUTICAL CAMERIST continues his useful notes on the photographic trade, showing what is going on just now, and how to work in pharmaceutical experience with the business (p. 765).

ONE of the chemists whose pharmacies were stated to have been acquired by the Chemists' Co-operative Company (Limited) writes to say that he has not sold his business to the company (p. 781).

MR. J. G. F. RICHARDSON points out, in our Pharmacopœia article on pills, how popular this form of medication has grown, and recommends the modification of certain B.P. formulæ, the introduction of a few new ones, and the deletion of several obsolete pills (p. 770).

SIR RICHARD QUAIN, in his presidential address at the opening of the General Medical Council, on Tuesday, gave an interesting account of the evolution of the British Pharmacopœia. In the course of the day a new Pharmacopœia Committee was appointed (p. 772).



*The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.*

#### An Assistant's Death.

The inquest on the body of James William Bush (53), manager of the branch pharmacy of Mr. W. S. Poll, pharmaceutical chemist, Yarmouth, was held on May 22, when it transpired that deceased was a martyr to insomnia, for which he took laudanum. In the course of the evidence Mr. William George Poll, chemist and druggist, in business with Mr. W. S. Poll, said that Bush had been manager since October, but he had been previously with them. He knew little personally of him, though he heard him complain of albuminuria and kidney-disease. On Monday, when Bush should have handed over the takings of the previous week, he did not appear, and for that reason Mr. W. S. Poll went to the premises on Tuesday, and found the shop shut up. Further evidence showed that deceased was found dead in bed, with a 6-oz bottle of laudanum (one-third full) and some money close by. Mr. Poll said that 12l. 19s. 10½d. found on the counter was several shillings less than the weekly takings usually were. The jury deliberated in private, and found that deceased died from misadventure, through taking an overdose of opium.

#### A Chemist and his Creditor.

In the Lord Mayor's Court on Friday the case of Baiss v. Parrett was disposed of by Mr. Roxburgh, the Assistant-Judge. The defendant, Mr. G. W. Parrett, described as a chemist and druggist, of High Street, Homerton, was summoned to show cause why he should not pay the sum of 16l. 9s. 6d., due to the plaintiff under a judgment of the Court. In reply to questions as to his means, the defendant said he had only carried on his present business of a chemist for a few months, and although it was an improving business, things were very bad with him at present, and he could not pay more than 5s. a month. After the payment of all expenses connected with the business his profits did not exceed 2l. a week, out of which he had to maintain a wife and two children. He had been in the employment of the plaintiffs for several years, and he considered that he was being badly treated. An order was made for the payment of 10s. a month.

#### Furious Driving.

Mr. Walter Oates, chemist and druggist, Nantwich, has been fined 12l. and 7s. 6d. costs for furious driving at Whitchurch. The evidence was to the effect that defendant drove a horse and trap along Green End at a rate of from 12 to 14 miles an hour. There were a number of children in the street, and it was with difficulty that they got out of the way. Superintendent Edwards remarked that the defendant was lately an assistant to Mr. G. H. Morgan, chemist, of Whitchurch, but had got into unsteady habits. Defendant did not appear until after the case had been disposed of.

#### Thefts.

At the Hull Police Court on May 24, before Mr. Twiss, Charles Henry Colley and Francis Noon, young men, were charged with stealing a number of medicine-bottles from an outhouse, belonging to Dr. Gaultby, 19 Regent Terrace, Anlaby Road, on May 8. Prisoners were remanded.

#### Fire

On Friday, May 24, a fire, caused by the explosion of some chemicals, broke out in the shop of Mr. Jacob Hardy Mitchell, chemist and druggist, 784 Manchester Road, Bradford. Mr. Mitchell was standing at the door of the shop at the time of the explosion, the force of which was such as to project him into the roadway. Before the fire brigade

arrived Mr. Mitchell and some neighbours put out the fire, but the damage amounted to 100l.

#### The Prison Looming.

At the Liverpool Police Court last week, Richard Hison Daly Johnson, M.R.C.S.E., who practises at Park Lane, Liverpool, and has also an interest in a chemist's and druggist's business at that address, and is the owner of the house No. 1 Canning Street, occupied by his wife, was sued by her for 13l. 9s., representing arrears of a maintenance-order made on March 23. Defendant stated that, though his practice had formerly been a lucrative one, it was now very small, the takings being only 25s. a week. He had handed over the Park Lane pharmacy to his assistant, Mr. Macdonald, and he did not live in Park Lane, having lodgings in Mersey Road, Rock Ferry. Cross-examined, he admitted that the value of the fixtures and effects of the shop at Park Lane was about 150l. to 200l. The Magistrates adjourned the case for a fortnight, to give defendant a chance of arranging terms with his wife, and if this is not done, the Magistrates intimated that they would have no option but to imprison him.

#### A Chemist Sent to Prison.

At Sedgely Police Court last week, Abel Wilkes, described as a chemist, but not on the register, got a month's imprisonment for being drunk and disorderly. Mr. Wilkes was indignant. He said he only had five pints of ale on the day of the alleged offence, and he had had more than that that morning and he intended to have more when he left the Court. He will not get it now until he leaves the prison.

#### Strychnine and Poisoning.

Dr. Wynn Westcott held an inquest at Hackney on Saturday respecting the death of David Stephen (43), an accountant, lately residing at 32 Sandmere Road, Clapham. From the evidence of Dr. A. G. Duncan, of 25 Amhurst Park, N., it appeared that deceased had suffered from the effects of influenza and drink, and was in charge of an asylum nurse. He had taken a bottle of strychnine from Dr. Duncan's surgery, and had swallowed a very large quantity of it. This was the cause of death.

#### A Fatal Vitriol Bath.

Edwin Young (40), employed at Messrs. Rossell's steel warehouse, Sheffield, fell into a pickling-tank of hot vitriol. He was quickly rescued, though he begged to be allowed to remain in to end his misery. He died in the hospital shortly after.

#### The Half-holiday.

The chemists and druggists of Alford have agreed to close each Thursday at 2 P.M. from May 30 to September 26.

#### The London County Council and its Chemist's Salary.

At the meeting of the London County Council last Tuesday the adjourned report of the General Purposes Committee, which recommended the increasing of Mr. Dibdin's (the chemist) salary from 700l. a year to a maximum of 1,000l., was discussed at some length. Lord Monkswell moved that the recommendation be referred back. In his opinion the committee had given no good reason why the salary should be increased. Because the work had increased was no reason why they should raise a man's salary, for it did not mean increased responsibilities. Mr. Crooks (one of the Labour members) seconded the amendment. He thought 700l. a year was adequate salary for the services performed. There were thousands of men with the necessary scientific knowledge who would be glad to undertake the work at much less. Colonel Rotton said he did not see any necessity for such a large increase. He knew that the duties were great, but he thought they were amply repaid by the present salary. Mr. Dibdin had practically told the committee that if the Council did not give him an increase he would go somewhere else where he could get more. He did not think that was a proper way to approach the Council.

Mr. Idris heartily supported the recommendation, and said he was able to appreciate the services of Mr. Dibdin as any man on the Council. He had some little knowledge of Mr. Dibdin's work before he came on the Council, and he must confess that he came to the Council strongly prejudiced against Mr. Dibdin. But, after serving on the Main-drainage

Committee for over six years, he had come to the conclusion that Mr. Dibdiu's services were not adequately remunerated by his present salary. He had no doubt they could get men to do the work for 100*l.* a year, but the question was whether the work would be well done? He maintained that Mr. Dibdiu had saved the ratepayers of London considerable sums, and it would be ungenerous not to agree to the increase recommended by the committee. It was important to remember that when Mr. Dibdiu was in the service of the late Board of Works he was allowed to take private practice, but he was now debarred from that. He (Mr. Idris) had no hesitation in saying that if Mr. Dibdin went somewhere else he would be able to command a better salary than what he was now receiving. Mr. Strong supported this view, and, on a division, the amendment was negatived by 62 votes to 53.

Mr. Westacott thereupon proposed another amendment making the increase to 800*l.*, but without the stipulation that that should be the maximum salary. He pointed out that it was not a mere question of extra salary, but it also involved the question of the superannuation allowance, for, of course, the larger Mr. Dibdin's salary the more he would receive as superannuation when the time came for him to retire. The Rev. Fleming Williams seconded the amendment, which was agreed to without a division.

#### Chemists at Cricket.

On Saturday, May 18, eleven cricketers representing the South London School of Pharmacy (Dr. Muter's) met a team from the Westminster College (Messrs Wills and Wootton) at Nunhead, and beat them by 112 to 62. On Saturday, May 25, the South London men levigated the Central School of Pharmacy Club more thoroughly still, the scores this time recording—S.L.S.P.C.C., 106; C.S.P.C.C., 37.

Burgoyne-Burbridge's C.C. played their second match of the season with Wright, Layman & Umney on the latter's ground at Hyde Farm, Balham, when Burgoyne's gained a somewhat easy victory, the scores being—Burgoyne's 43 for nine wickets; Wright, Layman & Umney, 12. Moxon and Barghes were in good form with the ball, the former taking 5 wickets for 3 rupees, the latter 5 wickets for 9.

On May 25 a match was played at Willesden between Barron-Harvey's C.C. and May & Baker's C.C., resulting in an easy win for the former. For the winners, H. Hebden played a good not-out innings of 41; F. Stockbury, 26; and F. W. Berry, 18; G. A. Grant again bowling well, taking 7 wickets for 9 runs. The scores were: B.H.C.C. 129, M. & B.C.C. 23.

#### Mason College Research Scholarships.

The Mason College authorities are offering three "Priestley" scholarships in chemistry, two "Bowen" scholarships in engineering and one in metallurgy, which have been founded by the late Mr. T. Aubrey Bowen, of Melbourne. They are intended to encourage and afford facilities for the higher study of these subjects in the college at Birmingham, where they are tenable for one year, with the possibility of renewal at the discretion of the Council of the College. The annual value of each is 100*l.*, and they are open to general competition. The first award will be made in September next, and all particulars may be learned on application to the Secretary of the College.

#### Stole 4*d.* from Boots.

At Birmingham on Tuesday Charles Roby and Samuel Crawford were arrested and charged with having broken into the premises of Messrs. Boots, chemists, Broad Street, on the night of May 23, and stolen 4*d.* in money. The prisoners were to be brought before the Magistrates on Wednesday.

#### Prussic acid Poisonings.

John Richard Powdou (50), formerly confidential secretary to the late Sir Morell Mackenzie, committed suicide at Croydon last week by taking prussic acid. When Sir Morell died the deceased lost his employment, and his wife subsequently died. From that time he began to drink excessively, and on Monday of last week took the fatal dose.

Harry Pike (48), a travelling photographer, was found in a dying condition in the Mall, St. James's Park, on May 23,

and expired on the way to Westminster Hospital. He had taken prussic acid. He had previously attempted suicide with chloral.

#### Carbolic-acid Poisonings.

An inquest was held at Hull on May 24, regarding the death of Martha Naylor (43), who had committed suicide by taking carbolic acid. The evidence showed that the woman had been much depressed since suffering from influenza about two months ago. Dr. G. W. Lilley, who had attended her then and when she took the poison, stated that death was due to carbolic-acid poisoning. The Foreman of the Jury thought it time that some restriction should be placed upon the sale of carbolic acid. Dr. Lilley said it was purely a commercial article, sold for disinfecting-purposes. People could purchase any quantity at the present time. The usual verdict was returned.

At an inquest held by the Dover Coroner on May 23, regarding the death of Henry Blaut (22), 30 Queen Anne Road, Maidstone. Evidence was given as to his purchasing 4 oz. of carbolic acid from a Dover chemist, which he afterwards swallowed. The jury returned a verdict of suicide.

Ada Louisa Gidden (28), wife of a carrier residing at Wimbledon, committed suicide on May 23 by taking carbolic acid. She had been depressed at intervals since the birth of her second child, and on May 2 took about 1½ oz. of laudanum, but Dr. Hirgraves treated her successfully. The chemists in the neighbourhood were then asked not to serve her with opium again. Somehow she got carbolic acid, with the result as stated.

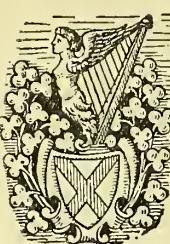
#### Alleged Assault on a Chemist.

At the Lambeth Police Court Wm. Vearsay was charged last week before Mr. Hopkins with having committed a violent assault on Mr. Jonas Bailey, a chemist, residing at Addison Place, Brixton. It appeared from the evidence of the prosecutor that on the previous Sunday he was walking down Brixton Road in company with his daughter, who had a dog with her, when the prisoner made use of some objectionable remark and was told to mind his own business. He continued to follow witness for some distance, and when at the corner of Addison Place struck him a severe blow in the eye. The prisoner now alleged that he was struck across the head by the prosecutor with a stick and was only acting in self-defence; but in spite of that statement the Magistrate imposed a fine of 3*l.* and costs, or one month.

#### Thought Sheep-dip was Sulphur.

At Eaville last week an inquest was held regarding the death of Albert Hodges, aged 2 years, who had died from the effects of poison. The mother had given the deceased and another child, and had also taken herself, a quantity of a mixture which she believed to be brimstone and treacle. The powder which she took to be brimstone was really an arsenical sheep dip. Mr. E. W. T. Jones, F.C.S., Wolverhampton, the county analyst, found this out.

**CAPE HALF-HOLIDAY BILL**—A Bill is now before the House of Assembly of Cape Colony to enforce a weekly half-holiday amongst shopkeepers, and chemist and druggists are included. It is not received very favourably by employers. A representative of the *Cape Times* has interviewed, amongst others, Mr. J. A. Mathew, of the firm of Heynes, Mathew & Co., stated that he did not think there was the slightest necessity for the Government to legislate upon what was really a matter of private arrangement. "Indeed," said Mr. Mathew, with considerable warmth, "they don't know what they are talking about. Personally, I have not a very strong opinion on the subject one way or the other. But in my opinion it is decidedly a mistake to legislate on the matter, especially in so far as chemists are concerned." Mr. H. Tebb, managing director of the firm of Messrs. B. G. Lennon & Co. (Limited), said: "The Bill is absurd. All our men get relieved in turns from Saturday afternoon duty as it is. The great objection to the Bill, as far as chemists are concerned, is that when the shops are supposed to be closed a certain number of assistants must be on duty." Mr. Tebb, in further criticising the Bill, asked who was to draw the dividing line as to what constituted the "medical necessities" referred to in the Bill.



# Irish News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

## Royal Dublin Society.

Last week's meeting of this Society, held in Leinster House, was quite a chemical one. After a paper by Dr. W. E. Adney, on "The Chemical Examination of Organic Matter in River-water," which was discussed by Sir Charles Cameron, Professor McWeeney, Dr. Frazer, and Professor Emerson Reynolds, argon and helium had a turn, two interesting papers on the new elements being communicated. The first of these was by Professor Emerson Reynolds, F.R.S., on "The Spectrum of Argon." He referred to the investigations of Lord Rayleigh and Professor Ramsay, and explained that argon yields two different spectra, according to the pressure to which it is subjected, which has given rise to the supposition that it is a compound body. At present the conclusion is justifiable that it is either an element or a mixture of elements.

Mr. R. J. Moss, F.I.C., F.C.S. (conductor of our "Corner for Students"), gave the second paper, describing and illustrating experiments he had recently conducted in the preparation of helium. In regard to this he explained that some thirty years ago a line was observed in the chromosphere and prominences of the sun which in the most careful and exhaustive investigation could not be assigned to any known element. All the other lines of the chromosphere and prominences were easily recognised as corresponding to those of known terrestrial elements. The line in question being close to the sodium lines D one and D two, was called D three, and a hypothetical element called helium, was invented to account for the line. Mr. Moss referred to Professor Ramsay's recent investigation of the gas discovered by Hillebrand, and described the methods employed for separating the gas from cleveite, and mentioned that at a certain pressure it exhibited a brilliant spectrum, when rendered incandescent by a current from an induction-coil, and in that spectrum the line D three was conspicuous. An exhibition of the spectra of both argon and helium was given by Professor Reynolds and Mr. Moss. Professor Reynolds remarked that there is reason for suspecting that argon and helium are closely related substances. Mr. Moss exhibited and explained a form of apparatus for the distillation of mercury *in vacuo*.

## Fire.

The drug, oil and colour establishment of Mr. Moughty, Ballinacarry, was last week burned to the ground by a fire, the cause of which is unknown at present. The damage is estimated to exceed 2,000*l.*

## Poor-law Medicines.

A return has been submitted to the Poor-law Guardians at Dublin showing that the sum of 2,154*l.* has been expended during the past six months in the purchase of medicines, medical and surgical appliances, and on the cost of dispensaries and workhouse medical expenses.

## Business Changes.

Mr. James Boyle, pharmaceutical chemist, has opened a new Medical Hall at Richmond Street, Londonderry.

The Medical Hall, Camden Street, Dublin, formerly conducted by Dr. Stritch, L.A.H., has been acquired and opened by Mr. Flood. The premises have been remodelled and newly fitted up.

Messrs. Hayes & Co., pharmaceutical chemists, Dublin, have modernised their extensive concern at Grafton Street, a new shop-front, of the severely "medical-hall" description, replacing the former rather ordinary exterior.

## Petered Out.

A mistake, resulting in the loss of sixteen head of valuable cattle, occurred last week at Edgeworthstown. A farmer named Peter Smith sent to a local trader for a quantity of salts, but, through a confusion of names, the assistant supplied saltpetre, instead of salts for Peter, as asked for. The nitrate of potash was given to the beasts, with the result that they all died. The loss is estimated at 250*l.*, and this sum the trader has offered to pay.

## Apothecaries Appointed.

Dr. Hanrahan was last week elected apothecary to the High Street, Dublin, Dispensary, to fill the vacancy caused through the death of Mr. Thomas W. Morris, L.A.H.

Dr. Stritch, L.A.H., late of the Medical Hall, Camden-Street, Dublin, has been appointed apothecary to the South-East Street Dispensary. Two pharmaceutical chemists were among the unsuccessful candidates.

## Professor Tichborne Entertains.

Professor Tichborne, the Governor of the Apothecaries' Hall, and member of the Pharmaceutical Council of Ireland, gave a banquet to the Medical Profession on Thursday evening last week at his residence, North Great George's Street, Dublin. Amongst others the following received invitations:—The Lord Mayor, the Provost of Trinity College, the Presidents of the Colleges of Physicians and Surgeons, the President of the Academy of Medicine, the President of the Pharmaceutical Society, Sir Charles Cameron, Sir George Owens, Sir William Stokes. The vice-chair was occupied by Sir Robert Jackson, Deputy-Governor. After the usual loyal toasts, the toasts of the Royal College of Physicians and the Royal College of Surgeons were duly given, and responded to by the Presidents. Sir Wm. Stokes and Professor Emerson Reynolds returned thanks in appropriate speeches on behalf of the Medical Schools of Dublin. The health of the Governor was proposed by the President of the Academy of Medicine, Dr. J. Little.



# Scotch News

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

## Poisoned with Matches.

The delay which is usually observed as characteristic of phosphorus-poisoning was illustrated at Woodside, Aberdeen, last week, when a boy of three sucked some matches. Shortly afterwards his mother observed his condition, and at once gave an emetic of salt and water, followed by a dose of castor oil. Beyond vomiting and preserving a sickly aspect, the child did not appear to be greatly affected. Three days later, however, he became ill, and next day died of phosphorus-poisoning.

## Sudden Death.

Mr. George Anderson, clerk to Messrs. Reid & Donald, chemists, Perth, while walking home to tea one night recently, became suddenly ill in West Mill Street. He was conveyed home in a cab, but never rallied, and death ensued within an hour, the cause being hemorrhage in the brain. Anderson was only 27 years of age.

## For Young Botanists.

The Edinburgh Chemists' Assistants' and Apprentices' Association have arranged botanical excursions to be held on June 5 to Blackford Hill, on June 26 to Colinton Dell, and on July 17 to Inveresk. Summer meetings are also to be held at 36 York Place on June 19 and July 15, at 8.30 to 10 P.M. These meetings will be devoted to examination of,

and demonstration on, plants, and will be preparatory to the succeeding botanical excursion. Members and non-members will get full particulars from Mr. George Sinclair, Secretary, 144A Princes Street.

#### A Cod-liver Oil Emulsion Claim.

The record has been closed by Sheriff Rutherford in an action raised in Edinburgh by David Middleton, chemist and druggist, 85 Bruntsfield Place, against J. M. Wilson & Co., chemists, 16 Leven Street, Edinburgh, for 50*l.* for damages sustained in his business and reputation by the alleged wrongful conduct of the defenders, and also for interdict. The pursuer states that he has made a particular preparation of cod-liver oil and other ingredients, the secret of which is known to him alone, known as "Middleton's Cod-liver Oil Emulsion." He avers that the defenders have been making a practice of substituting some other preparation than that of the pursuer in dispensing prescriptions for his (the pursuer's) emulsion. The defenders reply that they have never, until the present question arose, heard of any such preparation as that claimed by the pursuer, and explain that nearly every chemist in the country has his own mode of preparing cod-liver oil for use. They admit that a boy who called at the shop and presented a slip of paper containing a request for a bottle of Middleton's Cod-liver Oil Emulsion was told that they had no such preparation in their possession, but was informed that they could supply him with a bottle of Cod-liver Oil Emulsion of their own preparation. The boy accepted the offer, and it was supplied. It is contended that the pursuer has no exclusive title to the use of the term "Cod-liver Oil Emulsion."

#### Not Made on Drugs.

An inventory of the estate of the late Mr. W. K. Bruce, Grosvenor Terrace, Dundee, chemist and druggist, and a director of the confectionery firm James Keiller & Son (Limited), shows the net amount of the estate to be 22,199*l.* 12*s.* 8*d.*, on which a duty of 891*l.* 15*s.* 7*d.* has been paid. The principal part of the estate is deceased's interest in James Keiller & Son (Limited).

#### Edinburgh Chemists' Trip.

The local Trade Association have completed arrangements for the picnic to Kinross on Wednesday, June 12. Saloon carriages for Perth will start from Waverley Station at 10 15, and brakes will convey the company by Bridge of Earn and the beautiful Glen Farg to Kinross, which, no doubt, will be the centre of much enjoyment; but Mr. Claude F. Henry, Hon. Secretary, 1 Brandon Terrace, Edinburgh, will tell applicants all about it, and sell them tickets.

## Foreign and Colonial News.

**HOFF IN U.S.A.**—The firm of Johann Hoff, of Berlin, have erected malt-extract plant at Newark, N.J. (half-an-hour's run from New York), for manufacturing the preparation.

**A COURAGEOUS CUBAN.**—There are at present in the New York College of Pharmacy two students from Cuba. One cannot speak English, and gets an interpreter to tell him what the professors say.

**OPIUM DEALERS' FAILURE.**—Messrs. E. J. Livino & Co., opium-dealers, Philadelphia, have recently failed, and it is reported that the assets amount to about \$80,000, and the liabilities to \$125,000 or \$150,000.

**WOMEN IN HUNGARIAN PHARMACY.**—The Hungarian Pharmaceutical Society have considered the question of admitting women into pharmacy there, and they are agreeable so far—viz., to admit them as assistants. They have resolved accordingly, and to do all they can to bring the matter to a head.

**A BIG MOVE.**—Early in May the workmen of the Solvay Process Company of Rochester, N.Y., to the number of 2,000 men, moved *en masse* to Detroit, where the company have got a new site and grounds. Mr. Rowland Hazard, is president of the company; Mr. Frederick R. Hazard, treasurer; Mr. W. B. Cogswell, managing director; and Mr. E. M. Trump, general manager.

**CANADA MOVING.**—A suggestion has been made that a pharmaceutical association, similar to the American one and to the British Pharmaceutical Conference, should be formed for the Dominion of Canada. Mr. Muir, the Secretary of the Quebec Pharmaceutical Association, is moving in the matter, under the authority of his Council.

**CANADA AND PROPRIETARIES.**—The attempt of the Hon G. W. Ross to amend the Ontario Pharmacy Act by getting the making, vending, or dealing in patent and proprietary medicines excluded from it has in a measure been defeated by the Council of the Ontario College of Pharmacy getting a provision added that the exemption does not apply to those medicines which contain scheduled poisons.

**BOSTON PHARMACY FAIR.**—On May Day the Exhibition which has been organised in Boston by the *New England Druggist* staff was opened with due formalities, most of the leaders of pharmacy in the city taking part in it. The fair was intended to attract the public as well as pharmacists, and the attractions included musical concerts, lectures on questions of hygiene, and other entertainments, including examples of schoolrooms, day-nurseries, hospital-work, &c.

**CAPE PHARMACY BOARD.**—The report of the Pharmacy Board for 1894 states that there has been no change in the membership of the Board during 1893; but Mr. Rendell, of the Colonial Secretary's office, has been appointed secretary in the place of Mr. Nightingale, who left for England in April. The Board met during 1894, for general and examination purposes, five times, three meetings being held in Cape Town, one at Port Elizabeth, and one at Kimberley. Ten candidates have presented themselves for registration as chemists and druggists, and, on examination, six passed and four failed. The failures in 1893 were 81 per cent. A special examination on general knowledge was held on November 1, 1894, for apprentices, arrangements being made to enable candidates to present themselves at Cape Town, Port Elizabeth, East London, or Queen's Town. Of the eight who entered, only one succeeded in obtaining the number of marks that constituted a pass. Mr. J. D. Coley, B.A., of the Education Department, who set the papers, reports that they were of the same standard as those of the School Elementary Examination. In regard to the amendment of the Act, the Board approached the Medical Council, and a conference was held to discuss those questions upon which a conflict of opinion had arisen, with a view to coming to an arrangement by which some suggestion could be made to the Government supported by both bodies. The opinions of the Council are still under the consideration of the Board, but it is expected that a settlement will be come to at an early date.

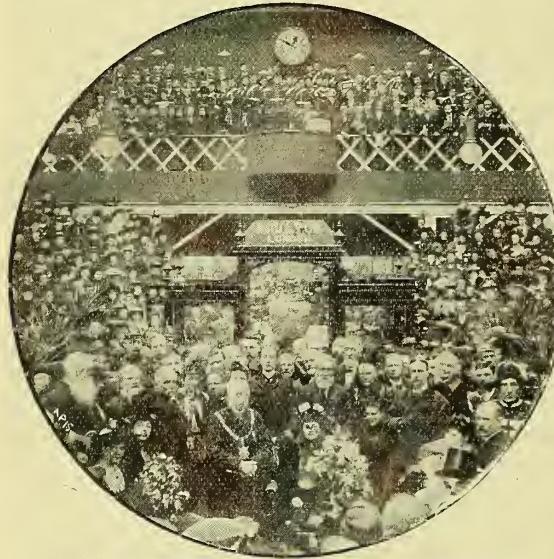
**CUTTING IN THE U.S.A. DRUG-TRADE.**—The wholesale dealers have just entered upon a new phase. The wholesale dealers are endeavouring to form a trust, which will prevent retail druggists from dealing directly with the manufacturers of proprietary medicines. There have been several meetings in New York, and in September at Denver a trust is likely to be formed. It appears that a number of retailers in New York have an association for dealing directly with the manufacturers, and thus manage to get bottom prices. The wholesalers are now endeavouring to unite with manufacturers to adopt the New England wholesale grocers' plan for controlling prices. This plan is stated to work in the following fashion:—All manufacturers invoice their goods at long prices only to all customers, and fill orders from any party. Thus, if Golden Medical Discovery was the article ordered, it would be invoiced by the makers to all parties at \$93 per gross, and would be paid for by buyers at this rate, less cash discount, if any. The 10 per cent. rebate allowed would be paid into the hands of the treasurer, and the entire sum from all quarters would at the end of three months be paid to those entitled to it. No rebates to be paid to those not engaged in the legitimate jobbing business, nor to those against whom complaints of violations have been lodged. It will thus be seen that the plan is one to protect the wholesaler's interests, and may not prevent cutting in the retail. The following committee has been appointed to carry out the scheme:—M. N. Kline, chairman; George A. Kelly, F. L. Carter, Theo. F. Meyer, D. D. Phillips, H. Michaels, Frank A. Faxon, E. G. Weles, J. C. Eliel, Thomas Lord, C. F. Weller, and W. J. Walding.

## Belfast Art and Industrial Exhibition.

SEVERAL attempts have been made to hold an exhibition on a large scale in Belfast, but until last month, when the Marchioness of Londonderry opened the splendid display in the grounds of the Old Linen Hall, success has not been attained.

The present Exhibition has been got up in aid of the Working Men's Institute and School of Science and Art, and has been patronised by many distinguished people, from the heir-presumptive downwards. Mr. Robert Barklie, F.C.S., acts as honorary secretary, and most of the work has fallen to him and Mr. Philip Sharpnel, the manager, the latter's great exhibition experience and tact being particularly serviceable in the work of classification.

On entering the Exhibition building from the right or left, under the band-stand, a most attractive spectacle is before one. There is variety of design and colouring, and when, towards nightfall, the electric light shines out the scene is one which sends average Irishmen into raptures. They are vain enough to hope, too, that many from England and Scotland will take an Irish tour during the coming summer, taking the commercial capital of Ireland and this Exhibi-



THE MARCHIONESS OF LONDONDERRY OPENS THE EXHIBITION.

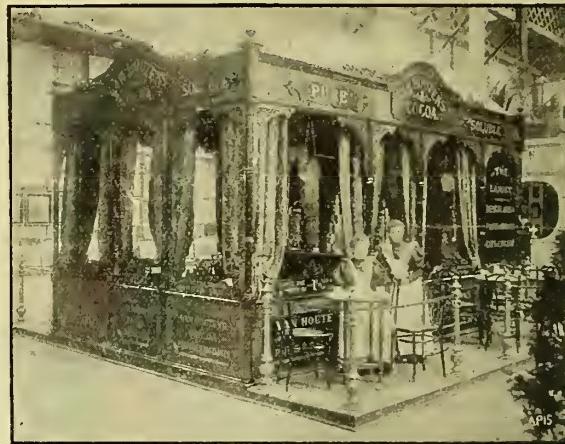
tion into their programme. They will see much that will charm them; indeed, were they to stay in Belfast all the time, taking car-trips by day and basking in the light and music of the Exhibition by night, they would return across the Channel with regret. Short day tours are run by the various railways from Belfast, and many are the interesting places that can be visited in this way.

But the Exhibition. The band-promenade is almost in the centre of the Exhibition building proper, and occupies about half of its area. The heart of the place is made into a sub-tropical garden, wherein a fairy fountain gives colour and sparkle to the music "Ye Olde High Street," which occupies the whole of the Eastern portion of the building, is a revelation to Pat and Biddy, who have not seen what South Kensington can do in that line. It is the Belfast street as it was in 1776, and in the various stalls and shops are displayed the usual attractive bazaar goods.

There are seven sections in the Exhibition, representing art, science, manufactures, textiles, natural history, domestic industries and sanitation, and machinery. In a walk through the sections one meets with many things interesting to the drug-trade, and, without attempting to describe these in detail, we shall briefly note the chief points about them.

The visitor cannot but be struck with the beautiful appearance of Van Houten's stand, which covers a space 20 feet by 18 feet, and is tastefully decorated. The en-

graving gives some idea of it. Mr. Turnbull, the popular representative, is in charge of the exhibit, and, in addition



VAN HOUTEN'S STAND.

to the penny cups of the beverage, visitors get free samples of the cocoa sufficient for three cups.

E. Clark & Co., Lambeth, London, exhibit "Optimus" coffee-extract, and refresh the weary with tiny cups of it for nothing.

Messrs. J. S. Fry & Co., Bristol, have a beautiful cocoa stand in the Tropical Gardens, whereat they have a magnificent display of their chocolate and confectionery.

The Sanitas Company (Limited), Bethnal Green, E., show their various manufactures at their stand in a prominent position in the Tropical Gardens, and is well worth seeing.

Messrs. F. C. Calvert & Co., Manchester, also exhibit in the same section samples of their carbolic disinfectants and toilet and pharmaceutical preparations.

Brand & Co., 11 Little Stanhope Street, W., exhibit at Stand No. 66 a full line of their beef, mutton, veal, and chicken essences, &c. The stand is in charge of a capable young lady, who has always ready a dish of invigorating beef bouillon for anyone who may give her a call.

Brunner, Mond & Co. (Limited), Northwich, show in a hexagonal stand with dome a nice selection of their alkali manufactures, such as bicarbonate of soda, soda crystals, and pure alkalies. This is much admired.

Langton & Bicknell, Newington Butts, S.E., exhibit spermaceti and sperm oil, for which Thomas M. Mullan & Co., Belfast, are the Irish agents.

John Riley & Sons, Hampton, Accrington, exhibit in an attractive manner samples of chemicals and dye-products for wholesale druggists, dyers, or mineral-water manufacturers.

Rizine Food Company, London, have a well laid out and bright display of jellies, Rizine blanc-mange cream, Rizine cornflour, Rizine custard-powder, &c. Mr. Farington, who represents the firm, has made himself quite popular, and doubtless his wares also.

Tomlinson & Hayward, Lincoln, make a striking display of sheep-dip and dairy-preparations in the Central Hall.

The Patent Borax Company, Birmingham, are located in the Eastern Section, with a nice caseful of their specialities.

G. J. Moulton & Co., Macclesfield, show and distribute free samples of their dry soap (musk-paraffin, &c.) at Stand No. 77, Avenue C, as also laundry blue and "Muko" soap. Messrs. Moulton claim to be the inventors and only makers of musk-paraffin dry soap.

B. T. Babbett's 1776 soap-powder is manufactured in New York, and lately introduced in this country. It is exhibited by Mr. J. Morton, Waverley Hotel, Belfast, who reports growing appreciation of the article.

The Anglo-Swiss Condensed Milk Company, 10 Mark Lane, show a complete series of their manufactures, including condensed milk, milk and cocoa, milk and coffee, chocolate and milk, and the exhibit is tastefully laid out.

The Mineral-water Section is well to the front, as was to be expected of Belfast. Among the exhibitors are—

W. A. Ross & Sons, Victoria Square, Belfast, in the Central Hall make a splendid display of their aerated waters and cordials.

Anderson & Co., Belfast and Lisburn, exhibit in the Eastern wing a complete selection of their manufactures, which include Belfast ginger-ale, lemonade, sarsaparilla, kali or potash water, and kola champagne. These are put up in patent screw-bottles and in glass-lined syphons. The firm have only lately taken to manufacturing cordials and fruit-syrups, and we understand they are receiving encouraging orders already. The proprietor is an M.P.S.I., and the works are under the charge of Mr. W. Redpath, L.P.S.I.

Cantrell & Cochrane, Belfast and Dublin, have a pretty case for their exhibit of aerated waters, amongst which the C. & C. aromatic ginger-ale is not the least tempting liquid.

Wm. Corry & Co., Belfast, exhibit aerated waters in patent and ordinary corked bottles, and add to the interest of the thing by exhibiting the different stages of development in the manufacture of aerated waters from 1850 down to the present day.

Evans & Son, Belfast, show samples of A1 champagne, kola champagne, ginger-beer, and other table-waters.

W. H. Bell & Co., pharmaceutical chemists, Belfast, make a good display of proprietary goods and pearl-coated pills. Their exhibit includes a number of handsome show-bottles filled with rare drugs, to each of which an interesting description is attached. This firm also exhibit for F. S. Cleaver & Son, London; D. & W. Gibbs, London; Vimbo Fluid Beef; and Automatic Sight-testing and Optical Supply Company, London.

Robert Rodgers, Limavady Drug Company, Limavady, makes a show of his hair-stimulant known as Rodgers' Hermonine. The preparation seems to be new, and we understand that already a large trade is being done in the article. Mr. Rodgers also makes a magnificent show of milled toilet-soaps, made by Mr. Gustave Boehm, 38 Moreland Street, London, and Offenbach. These soaps are made in a great variety of scents and various shapes.

H. Sardou & Co., through Mr. Bossomaier, 11 Richmond Gardens, W., exhibit a variety of fancy perfumery, and the fragrant ozone perfume.

Household soap is shown by two makers only, although the manufacturers of this article are numerous in Ireland. Mr. Alexander Finlay, Belfast, has made his stand one of the sights of the Exhibition, and anyone visiting it will be well repaid. The square glass showcase contains samples of the soap, candles, and other goods made by the firm, and four large pedestals surmount the corners of the exhibit; these are made from soap, and all are different in colour. Mr. Robert Christy, Belfast and Newtownards, exhibits Barilla soap at Stand No. 126.

As showing how important an industry to Ireland tobacco-manufacturing has become, it may be mentioned that the following take advantage of the Exhibition, viz.:—Thos. Gallagher & Co., Belfast; Murray, Sons & Co., Belfast; and W. H. Milligan & Co., Belfast.

One of the finest displays in the Exhibition is made by Doulton & Co., of Lambeth, S.E. It was in front of this exhibit that the Marchioness of Londonderry and her party took up their position on the opening day in front of the peaceful eye of the camera. The result we show in our first engraving. The Doulton exhibit includes examples of all classes of their work from drain-pipes, chemical ware, and water-filters to the choicest specimens of Burmese ware and George Tinworth's terra-cotta sculpture. It is beyond the scope of these pages to deal with many sections of the Exhibition; but all are attractive and interesting, and the affair, as a whole, deserves success and support.

CURAÇAO ALOES may be distinguished from other kinds by adding to it a little cupric-sulphate solution, then some saturated solution of common salt, which makes the colour an intense carmine. The reaction is due to cupro-aloin. Kremel, of Vienna, gives it, but we have not tried it.

THE best way to pack a hollow tooth with amalgam is, according to Mr. C. S. Tomes, to rapidly burnish a small quantity against the walls, then take enough to fill the bulk of the cavity, and finish by the addition of small pieces. If the amalgam sets while that is done heat the final portions.

## British Pharmaceutical Conference.

A MEETING of the Executive Committee was held at Bloomsbury Square on Wednesday, May 22. Present:—Mr. N. H. Martin (President); Messrs. Atkins, Attfield, Carteighe, and Toone (Vice-Presidents); Mr. John Moss (Treasurer); Messrs. Holmes, Bird, Mathews, and Farr; Mr. Hardwick (Hon. Local Secretary); Messrs. Naylor and Ransom (Hon. General Secretaries); and Mr. Nightingale (Assistant Secretary).

Letters of regret for non-attendance were received from Messrs. Hayes, Groves, Ewing, Wells, Boa, and Bridge.

The minutes of the previous meeting were read and confirmed.

Messrs. Toone and Hardwick, as a deputation from the local committee, presented an outline of the suggested arrangements in connection with the forthcoming meeting of the Conference at Bournemouth. The reception by the President is to be held at the Hotel Mont Doré on the evening of Monday, July 29. This hotel is to be the headquarters of the Conference, and accommodation will be there provided for a considerable number of members attending the meeting. The President will deliver his address in Shaftesbury Hall on the Tuesday morning, and this will be followed by the reading and discussion of papers. Luncheon will be provided at the Hotel Mont Doré. At the conclusion of the business in the afternoon, it is intended to take a steamboat-excursion to Swanage, from the neighbourhood of which very fine coast views are to be obtained. The reading of papers and official business of the Conference will be concluded on the Wednesday afternoon. The usual smoking-concert and ladies' drawing-room will be held at the hotel during the evening. The following day will be devoted to an excursion by coach to Christchurch, and thence through the most beautiful parts of the New Forest. Luncheon will be provided in the neighbourhood of Lyndhurst, and the return journey will be via Ringwood.

In accepting the suggested programme, a vote of thanks was passed to Messrs. Hardwick and Toone for their kindness in coming from Bournemouth to lay the above proposals before the committee.

Some discussion took place with regard to the form of the usual white circular issued to members, and the secretaries were authorised to make any alterations that they may consider desirable.

Thirteen gentlemen, having been duly nominated, were elected to membership.

## A New Baronet.

AMONGST the honours awarded on the Queen's birthday the baronetcy conferred upon Mr. John Tomlinson Brunner, M.P., one of the founders of Brunner, Mond & Co. (Limited), will give satisfaction in the chemical industry. The new baronet was born at Everton, Liverpool, in 1842, and entered mercantile life at Liverpool in 1857; thence he went to Widnes in 1872, in company with Dr. Ludwig Mond, to work the ammonia-soda process, and the success which has attended their combined efforts is shown as much by the chief alkali inspector's report as by the company's cent.-per-cent. dividends. It is said that this consummation has been attained by Sir John Brunner's organising brain and counting-house cleverness and Dr. Mond's scientific knowledge. Sir John Brunner was first returned to Parliament for Northwich in 1885. He lost his seat in 1886, but regained it on the death of his opponent, Mr. Robert Verdin, in 1887. He is a Radical, and the proprietor of the *Speaker*. Of his munificence there appears to be no end, and it is mainly directed to the encouragement of education and science.



## Legal Reports.

### BIRDLINE FOR THE "DEADLY FLY-TRAP."

#### THE LAW OF SALE BY SAMPLE.

MR. E. RIDLEY, Q.C., the official referee appointed to adjudicate in the case of *Hopkinson v. Bleasdale (Limited)*, heard counsel and delivered judgment on Friday, May 24, at the court in Lincoln's Inn Fields. It will be remembered that the plaintiff, Walter Ray Hopkinson, of Doncaster, maker of the "deadly fly-trap," sued Bleasdale (Limited), of York, for £2,500*l.* in respect to birdlime supplied, which he alleged spoilt his traps. This the defendants denied, averring that the paper used by plaintiff was not the proper kind, and that the things he mixed with the birdlime were accountable for the deterioration of which plaintiff complained. They put in a counterclaim of 170*l.* for goods supplied.

Mr. Kershaw, Q.C., and Mr. Yarborough Anderson, having addressed the Official Referee for the defendants, Mr. Chitty replying for the plaintiff,

Mr. Ridley gave judgment. In the course of his remarks he said:—The plaintiff had to prove that his fly-papers failed by reason of defects in them owing to defendants having supplied birdlime contrary to warranty. It appears that in May, 1894, it was supplied in a sample, and I think the law which has been clearly pointed out both by Mr. Kershaw and by Mr. Anderson, and, indeed, by Mr. Chitty, amounts to this: that a sale by sample shall correspond to the sample, but if there are concealed defects in the sample which the purchaser has not the opportunity of discovering, he is at liberty, if the other circumstances of the sale allow him, to rely on the difference between what is supplied and what the sample was. In the present instance the defendants knew that this birdlime was to be used by plaintiff for the purpose of making fly-papers, and I should have thought it followed that they were bound to supply this article of sufficient quality and character to be capable of being made up into saleable fly-papers. It is suggested that is not so in the present instance, because both of the parties were of equal skill in the matter. Still I think, although the plaintiff knew about the manufacture of fly-papers, he bought this birdlime trusting to the skill of defendants, and believing that they would make an article that would be fit and suitable for being made up into fly-papers. The warranty was that it was suitable birdlime to make up fly-papers which would be saleable in the market. Mr. Chitty contended that it meant far more than that, that the defendants also warranted that it would make up fly-papers according to plaintiff's specification. I do not think there was any such undertaking on the part of defendants. It is extremely difficult to see how a man could be liable in respect of that of which he knows nothing. The defendants did not know the contents of the specification, and if they had known the contents it appears to me they would not have been much the wiser, because the plaintiff himself admits that he does not disclose in that specification all the secrets of his fly-papers. Besides that, there is a process called manipulation, which may indicate that there is a difference not only in respect of the ingredients and the preparation of the ingredients, but also the manner in which you mix them, or possibly the time for exposure, or possibly the order in which you put the ingredients in. That being so, the defendants not having a knowledge of the specification, nor of the mode of preparation, it seems to me impossible that they guaranteed that this birdlime would make up into good fly-papers according to the plaintiff's method of mixing.

Mr. Chitty contends that the plaintiff always uses materials in the same proportion, therefore nothing can turn on that, and the reason of the deficiency of the fly-papers in 1894 must be sought elsewhere. If the plaintiff did always use treacle in the same proportion it was not according to specification, because it was clearly proved by his own witnesses that there was 50 per cent. of treacle, whereas according to the specification it should only be 33. Even if defendants had knowledge of the specification it would have told them nothing, because plaintiff did not act as the specification described. The plaintiff is obliged to go further, and to show that the damage which accrued to him was due to the defendant's birdlime being deficient in some quality which dis-

tinguished it from the other birdlime, and which produced a paper which was returned on his hands and became useless to him. If he could establish that, and also that the defendants had undertaken this warranty, which I do not think he has established, he would be entitled to damages. But I think, as a matter of fact, that the defect in the fly-papers was not owing to the birdlime of defendants being deficient in quality. It seems to me that the plaintiff has not established the fact that the fly-papers which were returned to him in 1894 were made of defendants' birdlime, nor has he established that they were returned because of that reason. When Mr. Chitty's case was closed I thought he had made out that the papers which were returned were made of the defendants' birdlime, and that would be a very strong position; because if you found in July or at the end of June these complaints began, that did not exist before, you might fairly presume they related to deliveries approximate in date to the complaints themselves; but upon the defendants' case being gone into, it became clear that there were a good many cases of goods which were delivered in 1894 in respect of which complaints were made in June and July, which could not possibly have been made with defendants' birdlime, because they were delivered before the date at which it was sent out. Mr. Chitty answers by saying that the people who have returned goods may have returned them to the wrong supplier. I cannot accept that in my judgment as a sufficient answer to the positive statement made by the defendants that in many instances the goods were delivered at such times that they could not be made up of defendants' birdlime.

Another point which the plaintiff had not succeeded in establishing is that it was owing to the quantity of resin in defendants' birdlime. If one were to ask the reason why those papers are useless, whether they were made from Pickford's birdlime or the defendants', I decline to answer the question. I think the treacle being used in such a large proportion is a very strong circumstance in the case, and it has been suggested by witnesses that the moisture partly exudes through non-porous paper or flows down towards the middle and leaves a dry and hard margin which sticks the edges together so that no man can open them. It is for the plaintiff to prove that it is the defendants' fault that all these things happened; but I think he failed to do that. If one could take the resin as the distinguishing cause, one is met with the further difficulty that some of the witnesses say that resin would keep it damp, and others dry; and who is to decide between them I do not know.

With regard to the whole case I believe I have covered most of the ground. I do not think the plaintiff has established his case. He has not shown that the defendants' stuff really was wanting in quality; indeed, nobody has remarked on the evidence, which is of importance, that the defendants have been making up the birdlime for their own papers, and have made up and sold their own fly-papers with success. I regret that the case has occupied so long, and that the cost of trying it will be so great; but the defendants have won, I think, on the whole case, and, without saying more about the particulars, the judgment must be for the defendants, with the cost of the case.

Mr. Kershaw: There is the counterclaim. The counterclaim is really admitted.

The Official Referee: It is a small matter; what should be done about that?

Mr. Chitty: I take it there is no dispute about that.

Mr. Yarborough Anderson: The figure is 170*l.* 15*s.* 10*d.*

The Official Referee gave judgment for this amount to be paid into court on Tuesday, May 28.

### FRANZ JOSEF BITTER WATER.

#### EXTENSIVE SELLING-RIGHTS DISPUTE

IN the Chancery Division, on Wednesday last, May 29, Mr. Justice Stirling had before him an application on behalf of Mr. Moritz Hirschler, of Budapest, for an injunction to restrain Messrs. Heriz & Collingwood, of Sussex Place, London, from stating that they were the agents of Mr. Hirschler and had the exclusive right of sale of the Franz Josef Bitter Water, and from warning people not to purchase it except through them.

Mr. Grosvenor Wood, Q.C., with Mr. Younger, appeared

for Mr. Hirschler; whilst Mr. Graham Hastings, Q.C., with Mr. Ribden, represented Messrs. Hertz & Collingwood.

Mr. Grosvenor Wood stated that Messrs. Hertz & Collingwood had acted as agents for the sale of the Franz Josef Water under an agreement with Mr. Hirschler, which agreement had now been determined by Mr. Hirschler. Messrs. Hertz & Collingwood disputed the right of Mr. Hirschler to put an end to the agreement, and were bringing an action against him. In the meantime they had published advertisements in certain trade journals in which they stated that they claimed the exclusive right of importing and selling the Franz Josef Bitter Water, and warned people against importing or selling the same except through them. An interim injunction had been granted, and it was now sought to restrain the publication of these statements pending the trial of the action. Mr. Wood submitted that if his Lordship granted the injunction it would do no harm to Messrs. Hertz & Collingwood, whereas if it were not granted irreparable injury would be done to Mr. Hirschler.

Mr. Graham Hastings contended that Mr. Hirschler was not entitled to the injunction asked for, as the statements made were absolutely true and Messrs. Hertz & Collingwood had brought an action to establish their rights.

At the conclusion of the arguments his Lordship said he would reserve his decision.

#### HUDSON'S EXTRACT-OF-SOAP TRADE-MARK.

MR JUSTICE KEKEWICH, sitting in the Chancery Division of the High Court of Justice, on Thursday granted an injunction on behalf of the proprietor of Hudson's Extract of Soap against Mr. Chenhnl, of Totnes, Devon, restraining him from so imitating the plaintiff's trade-mark and general get up of his packets of concentrated essence of soap as to lead the public to believe his (defendant's) goods were of the manufacture of the plaintiff. Sir Richard Webster, Q.C., described the trade-mark for the plaintiff, and put in the affidavits of traders to show that there was such close resemblance between defendant's and plaintiff's labels as was calculated to mislead the public. Mr. Willis Bund having addressed the Court for the defendant, the learned Judge granted the order restraining the defendant.

#### A SOAP ACTION SETTLED.

In the Chancery Division of the High Court of Justice on Friday, May 24, in the action of the East Lancashire Soap Company v. Shakeshaft & Sons, which came before Mr. Justice North, it was stated that the defendants were willing to consent to a perpetual injunction in the terms prayed, to pay an agreed sum for damages and costs, and to treat the motion as the trial of the action.

Order accordingly.

## Bankruptcy Reports.

*Re ALEXANDER MITCHELL, 12 Falcon Square, E.C., Agent to Borax-manufacturers.*

THE public examination of this debtor was held at the London Bankruptcy Court on May 24, before Mr. Registrar Brougham.

In reply to Mr. E. Leadham Hongh, Official Receiver, the bankrupt related his business history, as reported in this journal, May 11, page 665, adding that he is a married man with a family. The household furniture was settled upon his wife before the marriage, and a few articles have since been purchased by her from her own resources. There being no opposition on the part of creditors, the examination was ordered to be concluded.

*Re G. G. WOOLF, Frederick Place, Acton Street, Haggerston, and 24 Chapel Street, Islington, Manufacturing Chemist.*

THE first meeting of creditors in this case was held at the London Bankruptcy Court last week, before Mr. C. A. Pope, Assistant Receiver.

The debtor came to this country early in 1834, and commenced to trade at 88 Newington Green Road, with a capital

of 2,000*l.* The trading was not at all profitable, and at the end of two years, the capital having been absorbed, the debtor removed to Alexandra Road, N. After five years he removed to 36 Calverley Grove; then, three years ago, to his present address. A partner, named Williams, joined him about two and a half years since, introducing at the time as capital 300*l.*, and by an arrangement, under which he was to receive 3 per cent. interest, he (Williams) subsequently introduced further sums, amounting to over 5,000*l.* Mr. Williams undertook the management of the books, and the debtor conducted the practical branches. In December, 1894, the debtor gave Mr. Williams notice to determine the partnership, whereupon the latter assigned his interest in the business to a Mrs. Robison (the petitioning creditor), by whom the capital sums had been advanced. An arrangement was made between Mrs. Robison and the debtor, whereby the latter was to acquire the former's share of the business in consideration of repaying out her capital by instalments. In January last Mr. Williams commenced a Chancery action for accounts, and an order was made dissolving the partnership and appointing a receiver, who obtained an order recently to sell the business. Mrs. Robison about six weeks ago sued the debtor to recover 1,150*l.*, and obtained a judgment for the amount. The debtor states that he has expended about 3,000*l.* in advertising the business, and that he took extensive premises at Frederick Place and Green Lanes in response to a suggestion by Mr. Williams that it was expedient to make a good show. He attributes his failure to the liability to the petitioning creditor in respect of the capital introduced by his late partner.

In reply to the Chairman, the debtor admitted that he had gone by the name of Grunberg. He lost about 60*l.* through the three-card trick on March 16 last.

In the absence of any offer the creditors left the case in the hands of the Official Receiver, to be wound up in the ordinary course of bankruptcy.

The public examination of the debtor is appointed for June 11 next.

Appended is a list of the principal creditors, viz. :—

#### Unsecured.

	£	s.	d.
Branton, C. F., 229 Gresham Street, E.C. .. ..	200	0	0
Davidson, Jas., 8 Oxford Terrace, N. .. ..	60	0	0
Lefevre, Alexander, 226 Old Street, E.C. .. ..	30	0	0
Levesley, Jas., 162 Regent Street, W. .. ..	60	0	0
Reynolds, J. T., Black Horse, Aldersgate Street, E.C. .. ..	30	0	0
Robinson, Ellen, Matfield, Kent .. ..	1,150	0	0

#### Fully-secured.

National Finance and Advance Company (Limited), Finsbury Square, E.C. .. .. ..	103	0	0
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*Re JOHN THOMAS PARK WHITTLE, West Bromwich, formerly Manufacturing Chemist.*

THIS debtor applied for his discharge at the Birmingham Bankruptcy Court last week, the liabilities being 588*l. 1s. 7d.*, and the assets 100*l.* He commenced business as a manufacturing chemist in 1861, at Great Bridge, with a capital of 350*l.* This business he disposed of in 1868, and removed to West Bromwich, where he traded as an isinglass importer. In 1872 he became lessee of a coal-mine at Old Hill, and traded at a considerable loss till 1877, from which time he had been maintained by the income from properties. He had been caused considerable expense by an unfortunate marriage. The assets were not equal to 10*s.* in the pound.

Mr. McCardie commented on the fact that bankrupt had done no work since 1877.

Mr. Osborne said bankrupt had lost 5,000*l.* in the colliery. The discharge was granted.

*Re ALBERT HODGES, 171 Wardour Street, W., trading as The Link Shell Truss Company.*

IN this case a receiving order was made on April 27 upon a creditor's petition. The debtor's statement of affairs shows debts 1,139*l. 9s. 7d.*, almost entirely in respect of advertisements, and assets 15*l.* The Official Receiver reports that the debtor states that up to February, 1888, he was a truss-manufacturer, first at 18 James Street, Oxford Street, W., and afterwards at 327 Oxford Street, W.; that he was then out of business for a time, but in April, 1894 (with 250*l.* capital),

resumed business at 171 Wardour Street, W., where he traded under the style of "The Link Shell Truss Company" up to the date of the receiving order. The "Link Shell Truss" is said to be made according to an improved design invented by him, and in respect of which he had at the date of the receiving order applied for a patent. He has handed to the Official Receiver the Patent Office receipt for his application and specification, but he does not treat the invention as an available asset. He attributes his insolvency chiefly to loss in trading consequent upon the heavy liabilities incurred in extensively advertising the before-mentioned truss. The bankrupt has no household furniture, and resides in apartments. The first meeting of creditors was held recently, when the estate was left in the hands of the Official Receiver, to be wound up in the usual course of bankruptcy.

## Deeds of Arrangement.

**Dearden, Richard Henry**, trading at 43 Hammerton Street, Burnley, as White & Co., mineral-water manufacturer, also trading in co-partnership with another at the Jubilee Skating-rink, Hammerton Street, Burnley, skating-rink and dancing-academy proprietor, residing at 6 Sutcliffe Street, Burnley. Trustee, George Procter, 3 Grimshaw Street, Burnley, accountant. Dated, May 16; filed, May 22. Secured creditors, 1,928*l.* 5*s.*; liabilities unsecured, 972*l.* 1*s.* 3*d.*; estimated net assets, 76*l.* 6*s.* 6*d.*

**George & Co.**, Worle, cider merchants and aerated-water manufacturers (partners, Marmaduke Seaby Edwards and Walter Scott Blessley, both of Worle). Trustee, William H. Shiner, Yatton, auctioneer, &c. Dated, May 21; filed, May 27. Liabilities unsecured, 549*l.* 17*s.* 6*d.*; estimated net assets, 71*l.* 1*s.* 2*d.*

**Hallowell, Alexander Bold**, 3 New North Road, Huddersfield, and 21 Union Street, Halifax, dentist. Trustee, John F. Dyson, 5A Commercial Buildings, Park Row, Leeds, and Huddersfield, accountant. Dated, May 20; filed, May 27. Liabilities unsecured, 650*l.*; estimated net assets, 800*l.*

**Wadsworth, John**, 136 Northgate, Wakefield, aerated-water manufacturer. Trustee, Robert W. H. Bunt, Wakefield, accountant. Dated, May 20; filed, May 22. Secured creditors, 1,214*l.* 0*s.* 5*d.*; liabilities unsecured, 435*l.* 17*s.* 1*d.*; estimated net assets, 241*l.* 18*s.* 1*d.*

## Gazette.

### PARTNERSHIPS DISSOLVED.

**Colles, A., and Lyndon, A.**, general medical practitioners, Wellington, under the style of Doctors Colles & Lyndon.

**Duncan, D., and Forsbrook, W. H. R.**, general practitioners, Eccleston Street, and Buckingham Palace Road, Pimlico, S.W., under the style of Duncan & Forsbrook.

**Johnston, T. S., and Wheeler, R. T.**, surgeons and general medical practitioners, Sturry and Herne Bay, under the style of Johnston & Wheeler.

**Lever, J., and Jones, W.**, manufacturing chemists, Middleton Junction, Lancashire, under the style of Lever & Jones.

**Milligan, W., and Hamilton, J.**, Huddersfield, physicians and surgeons.

**Wilson, W. J., and Coleman, T. H.**, chemists and druggists, Birmingham, under the style of the Temple Drug Stores.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### RECEIVING ORDER.

**Skinner, Alfred** (trading as Hilton & Co.), Gower House, South Ealing, mineral-water manufacturer.

#### ADJUDICATION.

**Wolff, George Gabriel**, Green Lanes, Clissold Park, N., and Acton Street, Haggerston, N.E., ink, gum, and stain manufacturer.

#### ORDER MADE ON APPLICATION FOR DISCHARGE.

**Saunders, Henry Banyard**, Liverpool, director of a public company, late mineral-water manufacturer—discharge suspended until a dividend of not less than 10*s.* in the pound has been paid to the creditors, with liberty to the bankrupt at any time after the expiration of two years from the date of the order to apply for a modification thereof pursuant to section 8 of the Bankruptcy Act, 1890. That, until this dividend has been paid or the Court shall otherwise order, the sum of 40*s.* per annum, ordered to be paid by the bankrupt out of his salary by the order of this Court made on January 25, 1895, must be continued. All payments under such last-mentioned order to go against the said dividend.

## Business Changes.

**MR. WALTER J. GREEN**, chemist and druggist, has commenced business at Stallard Street, Trowbridge.

**MR. J. H. MORRIS**, chemist, has purchased the business of the late Mr. A. King, at 162 Windmill Street, Gravesend, and reopened it as a branch.

**MR. WM. FLYNN**, chemist and druggist, of 49 Botchergate, Carlisle, has sold his business there to Mr. John Hunter, chemist and druggist, of Bank Street, who will carry on the same as a branch establishment.

**MESSRS. ANDERSON & CO.**, manufacturing chemists, of 12 Murano Place, Edinburgh, announce that on and after June 1 their business will be carried on at their new premises, Junction Bridge Works, Edinburgh.

LAST week Mr. E. A. Holloway opened Baylass's old drug-store, No. 50 Union Street, Torquay, as a branch of Holloway's London Drug-stores. A photographic dark-room is one of the new features. The management of the shop is under the control of Mr. Frank D. Bray.

**MR. LEICESTER GATAKER**, of Weston-super-Mare, a professional "water-finder," was at Winchcombe, in Gloucestershire, last week, prospecting for water with a V-shaped twig, which revolved sharply whenever he passed over certain spots where water is supposed to lie hidden. After Mr. Gataker had made his discovery, he invited other local gentlemen present to experiment with the V-shaped twig. Only one of these, Mr. A. L. Hall, chemist, Winchcombe, was found to possess the power. With him it was very marked. Mr. Hall is going to run it as a branch of his business.

## Marriage.

**ANDRIOLI—BONUZZI.**—The marriage is announced of M. J. B. Andrioli, principal partner of Sozio & Andrioli, the well-known manufacturers of perfumery products, and Mlle. Amélie Bonuzzi, of Verona.

## Deaths.

**CLARKE**—Mr. Clarke, chemist and druggist, Market Place, Stockport, died suddenly last week. Aged 55. Mr. Clarke served his apprenticeship with Mr. Jeremiah Royce, chemist, Market Place, Stockport, and on that gentleman's death acquired the business. He also purchased the business of Mr. Wilkinson, chemist and druggist, which he amalgamated with his own.

**HARE.**—On May 28, Edward Knight Hare, only son of George E. Hare, chemist, Nottingham. Age 2.

**HENDERSON.**—Ex-Provost Henderson died at his residence, Freshfield, Dollar, on May 24. Aged 53. Mr. Henderson was born at Limekilns, Fifeshire, in 1842. He was apprenticed to the late Mr. Seath, Dunfermline, and soon after the completion of his apprenticeship he acquired a business in Inverkeithing, which he carried on for some years. In 1869, by arrangement with Mr. Thos. Bradshaw, a bookseller and chemist, Dollar, Mr. Henderson took over the chemist's part of the business, and opened the shop in Eglinton Place, which he occupied till his death. Ultimately he sold the business in Inverkeithing, and concentrated his energies in the development of that at Dollar. For many years he took a leading part in the affairs of the burgh of Dollar, and when the Police Act of 1891 was adopted Mr. Henderson was made the first Chief Magistrate. In the following year he became Provost.

THE first mercury thermometer was used by Ismael Boulliau in 1659, or sixty-two years before Fahrenheit discovered it.

## A Talk with "Mrs. Winslow."

A REPRESENTATIVE of this journal called at the Anglo-American Drug Company's office in Farringdon Road the other day to hear what the company had to say about recent statements regarding Winslow's Syrup, and he had a cordial reception from Mr. Renaud, the manager.

"I cannot account for the analyst's results," said Mr. Renaud. "It is perfectly absurd to say that the syrup contains 1 gr. of morphine in the fluid ounce. We use only 279 gr. of the morphine salt for each batch of the syrup, and that works out to, let me see, yes,  $1\frac{3}{4}$  gallons the finished quantity, or 2,360 oz—say, 0.114 gr. per oz, or a little less than the eighth of a grain which we advertise. The analyst has got wrong somehow."

"But is it not possible, Mr. Renaud, that some decomposition may occur and morphia be precipitated, so that one bottle might be stronger and another weaker?"

"No, it is perfectly dissolved, and there is nothing in the syrup to promote precipitation. We have a batch making now. Come and see it."

"Oh! you make it here, do you?"

"Yes; also Floriline and the Mexican. Brown's Bronchial Troches we import put up and ready for stamping."

Our representative was then taken over the factory. First there was the private laboratory, where the tinctures, essences, &c., for the various preparations are prepared. Here the morphine salt is weighed out, a fine Oertling's balance being used for the purpose, and, to convince our representative that the 279 grs. is the exact quantity, Mr. Renaud produced a  $\frac{1}{2}$ -oz. and a 1-dr. weight, the only ones in the room. The sulphate of morphine is Macfarlan's, a 50-oz. tin of which was produced for inspection.

"Now the next stage, Mr. Renaud."

"I dissolve the salt in 30 oz. of distilled water; there are six bottles of solution ready. One of these goes up to the compounding-room. Let us go up."

We went. There was there a mechanical mixer, and about 12 gallons of simple syrup standing beside it. Steam was put on, and the paddle began to revolve. The laboratory-man put in a couple of gallons of syrup. He then halved his 30 oz. of morphine-solution, and made each up to 60 oz. with water, which was put into the mixer; then more syrup.

"Bring the anise," said Mr. Renaud.

This was brought and put in, and more syrup.

Then a tincture, more syrup, another essence, and the rest of the syrup. It was not exciting to look at the revolving paddles, but that had to be done until samples of the milky fluid convinced the laboratory-man that the syrup was just right for bottling. At once two women came with trayfuls of bottles and began to fill the syrup into them, and ere long it was corked, sponged, labelled, wrapped, and packed into dozen parcels.

It was a risky thing to entrust a C. & D. prescriptionist with the secret of the syrup, but it solved the riddle of analysis. Returning to the office, and talking with Mr. Renaud regarding the history of the syrup, he explained that for the English trade it has always been made in England.

"As to its composition, I can assure you," Mr. Renaud explained, "that it has never varied in the slightest since I have been connected with it—now twenty years. It would be absurd to alter such a valuable property as 'Mrs. Winslow.' We did think of taking out the morphine when the Pharmacy Act began to be enforced, the amount in it being apparently so small ( $\frac{1}{64}$  gr. in a maximum dose); but it is an integral part of the medicine, and we would rather lose sales than spoil the syrup. What I cannot understand is why analysts differ so much? One grain to the ounce is really absurd, though."

"You said that the tincture contained — and —," remarked our representative. The blanks being two common and non-alkaloidal medicines.

"Yes, and a little caraway."

"Well, I imagine that the man who found 1 gr. of morphine got some of the active principles of these drugs in his alkaloidal residue, and he weighed them as morphine. Those who have said there is no morphine in the syrup have observed the presence of these matters, and in washing them away have also got rid of the morphine."

"Oh, that's it, is it? Well, I know that we are careful to put the ingredients in right, and never vary the way of making it; but analysts do differ, and it's not fair of them to make such erroneous statements."

This practically concluded the interview, for our representative had obtained the information which he desired—viz., that Winslow's Syrup is of the morphine-strength advertised in this journal.

## Formalin as a Preservative.

MR. R. T. THOMSON, F.I.C., in a paper communicated to the *Chemical News*, states that he has made a few experiments with the view of comparing the value of formic aldehyd, or formalin, as a preservative with such well-known articles as horic acid, salicylic acid, and benzoic acid. For this purpose measured quantities of the same milk, to which the various preservatives were added, were kept in stoppered bottles under the same conditions as nearly as possible, and the condition of each examined from time to time, one sample of the milk free from preservative being also kept along with these for comparison. The following are the results of the observations:—

Preservative employed	Milk after standing 6 days	Milk after standing 7 days	Milk after standing 8 days. Lactic acid per cent.	Milk after standing 11 days. Lactic acid per cent.
None .. ..	Sour { Sour, curdled }		0.68	0.71
40 p.c. formic aldehyd ( $8\frac{1}{2}$ gr. per gall.) ..	Sweet	Sweet	0.12	0.43
40 p.c. formic aldehyd ( $17\frac{1}{2}$ gr. per gall.) ..	Sweet	Sweet	0.10	0.14
40 p.c. formic aldehyd (35 gr. per gall.) ..	Sweet	Sweet	0.07	0.10
Boric acid (35 gr. per gall.) ..	Turned { Sour, curdled }		0.42	0.52
Boric acid and borax in equivalent quantities (= 35 gr. boric acid) ..	Sweet	Sweet	0.10	0.32
Salicylic acid (35 gr. per gall.) ..	Sweet	Sweet	0.10	0.33
Benzoic acid (17 gr. per gall.) ..	{ Slightly turned }	Sour	0.45	0.52

It is apparent from these results that  $8\frac{1}{2}$  gr. of formalin are quite as effective in preserving milk as four times that amount of boric acid (at least when used as a mixture of horic acid and borax), and the same proportion of salicylic acid, while the preserving-power of benzoic acid is very low compared with what might be expected from statements made in text-books. It also seems peculiar that horic acid alone is much inferior to a mixture of boric acid and borax, so made up that each of these substances contributes equal to 17.5 gr. of crystallised boric acid per gallon of milk. We may add that Messrs. A. & M. Zimmermann, Cross Lane, E.C., are agents for formalin.

TURKISH PHARMACY STUDENTS' PICNIC.—The Sultan is the father of his people, verily. He is accustomed to give students of the Government Schools a picnic on the beautiful meadows of the Sweet Waters at Kiathané. Amongst those so treated recently were the professors and students of the Veterinary and Pharmacy Schools. It may interest pharmacy students in England to know what they did. They met in the morning near the Kiat Haneh bridge, whence they marched with hands playing to the spot appointed for the picnic. On their way to the Sweet Waters they made a short halt before the Mausoleum of Eyoub, and heard a prayer recited by an imam. General Ismail Pasha, aide-de-camp of the Sultan, represented his Imperial Majesty at the picnic, and Marshal Zeki Pasha, Grand Master of Artillery and director-general of military schools in the capital, was also present at the *sitae*. Three speeches were made in the course of the day—namely, by the Sultan's representative, by Marshal Zeki Pasha, and by one of the pupils.

## Two New Pharmaceutical Councillors.

ELECTED MAY 23, 1895.



MR. OCTAVIUS CORDER, Norwich. A pharmaceutical chemist of forty-three years' standing, who for many years was a member of the Board of Examiners for England and Wales, examining in botany. Retired in 1894. Was President of the British Pharmaceutical Conference in 1893.



MR. ARTHUR LEDSON SAVORY, pharmaceutical chemist. One of the principals of Savory & Moore, New Bond Street, W. His election to the Council renews the connection of his firm with the Society which his grandfather, John Savory, inaugurated as a founder and President of the Society.

## Recent Patents.

### Insects, Destroying.

22,450. 1893. Buchan, D. D., Gardyne Street, Friocheim, Forfarshire.

Relates to a sticky composition, for destroying wasps and other insects, prepared from linseed oil, gum thus, glucose, a flavouring-essence, and some aniline dye, such as crimson.

### Pharmaceutical Preparations.

22,931. 1893. Warrick, F. W., 18 Old Swan Lane, London.

Consists in mixing a ferrous salt—for example, the carbonate or phosphate—either alone or with other drugs which are prescribed with ferrous salts (for example, arsenious acid or extract of *nux vomica*), with melted glyco-gelatine. Such a preparation is not readily oxidised when in contact with air.

### Combined Feeding-bottle, &c., and Thermometer.

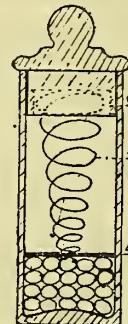
23,515. 1893. Moritz, G., 12 Deutsche Strasse, and Matthias, G., 45 Bogislavstrasse, both in Stettin, Germany.

Thermometers are combined with feeding-bottles or other vessels by supporting them in a frame adapted to receive the vessel, and shaping them so as to fit closely against it.

### Bottles, &c.; Boxes, &c.; Cans, &c.

19,798. 1893. Searl, A., Phoenix Mills, Dartford, Kent.

Relates to bottles, jars, tubes, tins, &c., for containing pills, medicinal or dietetic preparations, &c. The pad B



provided with a spiral spring A, &c., acts in conjunction with the lid or stopper C to minimise movement or shaking of the contents in transit.

### Medicine-tube and Soothing-teat.

23,874. 1893. O'Neill, C., 1A Weston Street, Preston.

Consists of a glass tube having a confection at one end for receiving a rubber teat with an ivory or bone shield and closed by a cork or rubber stopper at the other.

### Medicine.

24,048. 1893. Fenton, G. and S. E., 11 Brixton Road, London.

A medicament for internal use, for the removal of rheumatic pains, composed of sulphate of quinine (24 gr.), tincture of iron ( $1\frac{1}{2}$  fl. dr.), dilute muriatic acid ( $\frac{1}{2}$  fl. dr.), syrup (about  $\frac{1}{2}$  oz.), and a saturated solution of camphor (to 8 oz.).

### Bottles, &c.

23,974. 1893. Fletcher, R., 20 Gaolgate Street, Stafford.

To enable bottles and other receptacles containing poisons to be readily distinguished, small pointed projections are formed over the whole or part of the bottle, &c. The provisional specification states that a clear space may be left for the reception of the label.

### Capsule Fillings.

681. 1894. Warrick, F. W., 18 Old Swan Lane, London.

Ferrous carbonate or ferrous phosphate, when used for capsule fillings, is mixed with glucose to prevent oxidation.

## Photographic Notes.

By A PHARMACEUTICAL CAMERIST.

### PHANEROGENE.

THIS is about the latest developer. It is proposed by Reverdin and De la Harpe. It is an organic compound of the aromatic series, is a white powder, and dissolves readily with alkali, giving a yellow-coloured solution.

THE Britannia Works Company are now issuing

### "ILFORD" FILMS.

There are two rapidities—the "Artist" and "Special Rapid." The "Artist" films are twice the rapidity of "Ilford" ordinary plates, and sell at 1s. 6d. a dozen (1/4-plate size). I notice that they have also begun the manufacture of "Process" plates for process-workers.

### METHYLATED SPIRIT AND NEGATIVES.

A CORRESPONDENT of the *British Journal of Photography* points out that methylated spirit causes no spots, or markings, if the negative is wiped dry with an old silk handkerchief as soon as the spirit is poured off. If the negative is left to dry spontaneously the mineral oil in the spirit runs together.

THOSE who have any aspirations to artistic photography, and a purse corresponding to their aspirations, use the

### PLATINOTYPE-PRINTING PROCESS.

Considering the ease and simplicity of the process it is surprising that it is not more generally used. It is a suitable process to suggest to amateurs for their very choicest negatives. The paper is sent out by the Platinotype Company, 22 Bloomsbury Street, W.C., in airtight tins, either cut up or in sheets. To take the temperature of the hot-bath process an ordinary bath thermometer taken out of the wooden case is all that is required. There is a considerable demand for a

### SEPIA-TONING METHOD FOR PLATINOTYPES.

I have several times made up the solutions for Strakosch's method. To make this 1 to 2 per cent. of a 5-gr.-to-the-ounce solution of mercuric chloride is added to the ordinary developer, fixing and washing being done as usual. The prints are then immersed in the following toning-bath till of the proper colour:—

Uranium nitrate .. .. .. ..	5ij.
Potassium ferricyanide .. .. .. ..	gr. xxiv.
Glacial acetic acid .. .. .. ..	5iss.
Water .. .. .. ..	3xxv.

The prints are then transferred to water slightly acidulated with acetic acid, rinsed in plain water, and dried. I have lately been trying the newly-invented method of Mr. J. Packham, 18 Katharine Street, Croydon. It is a very simple process. The patent tintorial compound is sent out as a powder in 1s. packets. From the powder a stock solution is made, of which 30 to 40 minimis are added to a pint of hot water for a toning-bath, producing warm sepia tones in a few minutes. Mr. Packham recommends the dried print to be rubbed with a little "neutral oleate"—a preparation he puts up for sale in 1s. 3d. bottles.

### "HYPO" SOLUTION.

A GOOD many amateurs find it troublesome to make a fixing-bath, as it usually requires straining to remove mechanical impurities. A concentrated fixing-bath sells well to such customers. It is best made by heating 4 lbs. hyposulphite of soda in 44 oz. of water in an enamelled saucepan till dissolved, straining through absorbent cotton-wool, and making up to 80 fl. oz. Label "Concentrated Hypo." Each 5 oz. of this solution equals 4 oz. of solid hyposulphite of soda. It sells at 6d. a pint, and that pays better than the solid hypo.

I HAVE just been fitting up a

### CYCLIST'S CAMERA

for a customer who combines cycling with photography. The camera (a 1/4-plate one) was made by the London and Paris Optic Company, 7 Jewin Street, E.C., on the model of their "Queen" camera. It was fitted with a Newman & Guardia (92 Shaftesbury Avenue, W.) changing-box for a dozen plates or films and a Thornton-Pickard shutter fixed on the front panel of the camera. A rapid rectilinear lens and light stand completed the outfit, which came out at 9*l.* In use it is found to be perfectly free from rattle, and consequent annoyance from dust in the shape of pin-holes on the negatives.

### NOTES.

MR WALTER D. WELFORD is organising a photographic competition and exhibition, to be held in the Arcade Galleries of the Agricultural Hall, opening on June 29, for a week. It is in connection with the Tobacco Trades Exhibition.

I NOTICE that a gentleman with a name which used to be as a household word in chemistry circles—Mr. Geo. H. Crace-Calvert—is an excellent photographer. He has been exhibiting continental cathedral and Tasmanian views at St. Bartholomew's Hospital Photographic Society.

I CALLED at Fallowfield's, 146 Charing Cross Road, W., the other day. They tell me they are selling the "Facile" hand-camera more freely than ever. I find the one fitted with rapid rectilinear lens sells the best. At its price (5*l.*) it would be difficult to beat.

### MATT VARNISH

is more used now that "photo-faking" has become quite a fine art. A formula I have used for years is—

Sandarac .. .. .. .. ..	3 <i>j.</i>
Mastic .. .. .. .. ..	3 <i>ss.</i>
Ether .. .. .. .. ..	3 <i>x.</i>
Dissolve, and add—	
Benzine .. .. .. .. ..	3 <i>iv.</i>

Sandarac is only slightly soluble in benzine, so that in using matt varnish the ether evaporates more rapidly than the benzine, and the sandarac is precipitated in a finely-divided state when a certain point is reached. For printing negatives with too harsh contrasts this varnish is required green-tinted. Malachite green, dissolved in spirit in the proportion of 10 grs. to the ounce, is added a few drops at a time until the required tint is obtained. Ounce bottles of matt varnish sell at 6d.

### MOUNTANTS.

THE manufacture of such preparations as mountants is one of the best paying parts of the photographic trade. I prefer to use a mountant made by myself—and why should I not get my customers to try it? So I append for the benefit of other retail chemists a few notes on formulas which I have tried and not found wanting. A good mountant for all purposes, and one which keeps well, is made as follows:—

Powdered starch .. .. .. ..	3 <i>j.</i>
Gelatine .. .. .. ..	3 <i>ss.</i>
Spirit .. .. .. ..	3 <i>j.</i>
Carbolic acid .. .. .. ..	3 <i>ss.</i>
Water .. .. .. ..	3 <i>xij.</i>

Heat the starch with 10 oz. of the water until the granules are completely tumified and a translucent jelly is formed: then add the gelatine, previously dissolved in the remaining 2 oz. of water; and, lastly, the spirit and carbolic acid.

This is best put up in 1-lb. screw-cap horey jars, which sell at 1s. Another formula is—

Gelatine .. .. .. ..	3 <i>j.</i>
Glycerine .. .. .. ..	3 <i>j.</i>
Spirit .. .. .. ..	3 <i>v.</i>
Water .. .. .. ..	3 <i>xv.</i>

This requires warming before use.

GOLD MEDALS 1884-1885-1886-1888.


**SANITAS**  
**DISINFECTANTS**
TRADE  
MARK.

"SANITAS" EUCALEYPTUS PREPARATIONS.

Kingzett's Sulphur Candles and Sulphugators,

Kingzett's Drain Testers,

Preserved Peroxide of Hydrogen,

Mercuric Bactericide, Eucalyptus Oils.

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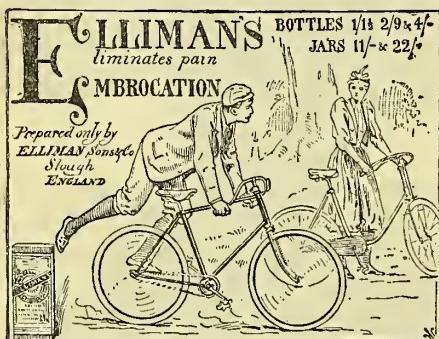
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**A CLEAN SWEEP—MAINLY.**

THE Pharmaceutical Council's Pharmacopoeia Committee mean business. They have begun their labours with one of those bold sweeps of destructive criticism which are intended to reduce the bulk of the Pharmacopoeia and to clear the shelves of pharmacies of antiquated and useless stock.

They recommend that 218 substances and preparations should be omitted from the next edition. In coming to this conclusion they have been assisted by 232 local secretaries and other pharmacists throughout Great Britain. In many respects the list of omissions bears a close resemblance to that compiled by the Therapeutic Committee of the British Medical Association. A few of the suggestions are inexplicable, if we are to measure the value of medicines by their popularity and use. Among such may be named ferri peroxidum hydratum, glycerinum acidi gallici, liquor ammonii acetatis, liquor antimonii chloridi, oleum sabinae, ung. calaminæ, and ung. gallæ. There are, besides, many more which are on the doubtful line, and therefore should be allowed to stay. Those we have mentioned, however, sufficiently infringe the principles which should be recognised in Pharmacopœia revision. The first, we take it, should be that medicines which are already in the Pharmacopœia should not be deleted except for very strong reasons. With the exception of glycerinum acidi gallici and liquor ammonii acetatis, the preparations which we have named are generally sold by retail rather than by prescription. The red oxide of iron is extensively used in some parts of the country, in combination with cinchona, rhubarb, &c., as a tonic and anti-neurægic; liq. antim. chlor. is in every-day demand in agricultural businesses; ung. calamine and ung. gallæ are domestic remedies of more than minor importance, the former being on that account restored to the 1885 Pharmacopœia; and oleum sabinae is still a favourite medicine for women, and is part and parcel of the Pharmacy Act. Why the Pharmaceutical Council should in its wisdom, and in this year of grace, wish the Medical Council to exclude from the national medicine-book a medicine the sale of which in 1868 they moved the Legislature to restrict to chemists and druggists is incomprehensible. Their reason for excluding liquor ammonii acetatis we should like to know. It is true they retain the stronger solution, but that is not minderæus spirit; and it is an unwarrantable interference with custom to replace a well-recognised medicine by a concentrated preparation of the same character. There are many things in the list of the 218 which are by no means obsolete, although their popularity may be confined to certain districts of the country, or to certain classes of practitioners. We know, for example, one distinguished practitioner who orders a few gallons of tr. sumbul annually; of a pharmacy where as much liquor morphinæ acetatis is used as of the hydrochlorate; yet these preparations are in the list of the things that never will be missed, according to the Council and committee.

The second principle of Pharmacopœia revision, so far as omissions are concerned, should be an endeavour to reduce the bulk of the book by excluding those crude substances used in manufacturing salts, &c., the identity and purity of which are provided for by adequate tests. A large number of articles of this kind are in the list—for example, amygdala amara, anisi stellati fructus, argentum purificatum, bismuthum, &c. It is products from such things that are used in medicine, and, therefore, the products only should be made official. But this does not apply to ficus, mori succus, uva, and some others which become part and parcel of galenicals. Perhaps the Pharmaceutical Council and the Pharmacopœia Committee do not mean that they would make confection of senna without figs, or tincture of cardamoms without raisins, or syrupus mori without mulberry-juice; they may only want the B.P. descriptions of these substances to be deleted. But if this surmise is correct, the inclusion of such articles in the list is not creditable to the Council and the committee. Recent extravagance in regard to Pharmacopœia omissions necessitates the most scrupulous care on

the part of authoritative bodies, and at the outset of the final pharmaceutical criticism (as we must regard the work now being done) it would be well that each recommendation should be considered with seriousness.

The list of recommended additions exhibits a few trifling inconsistencies in nomenclature, which are doubtless the result of hurried publication, but they enforce the necessity for what we have said in regard to care. Guaiacol carbonate, guaiacol crystals, naphthalene, solutio ethyl nitritis, syr. ferri picis liquide, and terebene are not elegant titles, and are out of place in a table of Latin names. The list of additions is a modest one, and with the exception of chrysarobinum purificatum, which is in the 1885 Pharmacopœia with erroneous synonyms, the articles are chiefly new remedies and proprietary preparations the value of which has been demonstrated during the past decade. Ammonium iodide is, of course, an old remedy which the multitude have but recently begun to appreciate, and solutio æthyl nitritis is being offered to the Medical Council as the scientific expression of an ancient but popular and useful so-called placebo—to wit, sweet nitre. This is a graceful recognition of the work of the Pharmaceutical Research Laboratory. Presumably the Council and committee also express their appreciation of the researches which led up to the preparation of Bishop's caffeinæ citras effervescent, Parke, Davis & Co.'s cascara sagrada elixir, Smith's liquid belladonna plaster, Bullock & Reynolds' glycer. pepsin. acid., Burroughs, Wellcome & Co.'s hazeline and malt preparations, Mr. Benger's liquor pancreaticus, Mr. Fellows's syr. hypophosph. co., and Richardson's ammoniated ergot, as for each and all of these a B.P. equivalent is recommended.

The work of great firms, like the deeds of great men, is ere long welded with the nation's historic greatness, and when it happens to refer to medicine it is added to the Pharmacopœia. We are a remarkably democratic and long-suffering people, so we take these things calmly. It is only when we recall the outcry there was a few years ago about factory-made preparations that we wonder if all this is real. Then our voice was as that of one crying in the wilderness. "Can there any good thing come out of Nazareth?" was the only response to the argument that pharmaceutical factories are not sinks of iniquity. And, behold, our fathers and brethren in high places have meditated, and the fruit of their meditation is to the glory of the factory-made. Which is as it should be, for have we not been told to seek good in everything?

#### SUMMER TRADE.

THESE warm days are putting a different complexion upon trade, particularly in wearing out the message-boy. The demand for syphons is phenomenal; in consequence, the slow youth is getting behind in his literature, and he turns from his fast-increasing pile of dirty bottles with a sigh—for his successor. A big syphon business this summer is the chemist's right. The winter trade was ruinous. One awoke in the morning to calculate while shaving how many syphons had broken during the night, and even the visit to the cellar proved that the imagination was unequal to the frost. The loss has to be made good somehow, and it almost seems that the manufacturers are to take part of the burden upon their shoulders, for some of them are filling syphons of plain soda at 1s. 6d. a dozen, the customer paying for delivery. We are speaking of London now. Here the suburban chemist feels satisfied if he gets 3d. per syphon for his plain soda, and 3s. a dozen from a booking customer. Provincial chemists sometimes pay more to the manufacturer. The London condition of things seems to be, in the light of the

fine prices that once ruled, a ruinous trade for all concerned. Yet it is not. The leading makers pay excellent dividends; the prices of historic waters, such as Hooper & Struve's and Schweppes, are as good as ever; and chemists who have helped to develop the new trade find that it pays them if they look well after it. The fact is that all this is new business which has been created by the low prices. Thousands of families in London, who a few years ago sent to the nearest confectioner's or dairy for a few bottles of soda, now get their syphons from the chemist. They get a better article, as cheaply, which suits their purpose better. And chemists, in spite of keen competition from neighbouring shopkeepers, hold the trade firmly, because their prices are moderate, and because the syphon has the flavour of a chemist's shop about it. We are not believers in small profits and big returns in all branches; but it is difficult to imagine how this business could have grown had competition between manufacturers not exerted them to lessen the cost of production so as to counteract the fatality of cutting. The result is a phenomenal success in which the chemist has shared, and now a leading London caterer is to give the trade a further fillip by allowing his customers to have soda for nothing. The syphon is to have its place on his bars alongside the water-jug, and whether the active ingredient is mountain dew or milk the drinker can draw the soda for it free. Chemists should keep an eye on the results of this scheme. It may divert trade from them or bring more certainly it will still further popularise the syphon, and it is that we have to look after.

The sticky fly-paper is another sign of summer. It is not the chemist's righteous inheritance, for the big-voiced "Catch 'em alive, oh!" man was the creator of the business. But the chemist, with his superior skill, has given elegance to a smear of nastiness, and has made cemeteries and what not where were racks of torture for the buzzing tribe. The net result is a very profitable extra for the chemist. But it is not all clover, as CHEMIST AND DRUGGIST readers will have gathered from our reports of the Hopkinson v. Bleasdale case, which we conclude to-day. Unlike the good old Papier Moure, the sticky fly-paper does not keep good over the season. It gets hard; the edge sticketh closer than a brother, and little short of a steel-testing machine will bring the folds apart. Consequently a bad fly season is disastrous to manufacturers. Returns come to them at an alarming rate, and such a summer as we had last year may mean the swamping of a whole year's profits. The evidence in the above-mentioned case has not let out any notable secrets. Readers of this journal have been told over and over again how sticky fly-papers are made. Given so much boiled linseed oil, resin, a non-oxidising oil, an attractive, and a good parchment paper, and we have all the elements of an excellent speciality. But there are tricks of trade to learn which no journal can teach, and are utterly unprofitable for any but a large manufacturer to master. It is an industry which, we feel convinced, retailers should leave severely alone. They can do better by buying as they go along, and they can do much, by attention to certain details, in maintaining the reputation of the paper which they favour. The man who fills his window with sticky fly-papers is the manufacturer's nightmare. He is adopting the surest means of making the oily constituents of the mass sink into the paper fibre, so that the parts will not separate. Resinification is also expedited, and the result is bad for him and all else, except the buzzing fly. The stock of papers should be kept in a cool locker, wrapped in their original packages as received, and display confined to a woeful example or two, showcards, and the counter-box. If the window must be filled, the empty boxes are good enough for the purpose. May this

season bring billions of explorers to the alluring continents which are being spread for them from Reading to Friockheim—"freak 'em" they pronounce it in the North. How appropriate!

#### THE PHARMACEUTICAL SOCIETY.

THE Pharmaceutical Society was fortunate enough to secure a Cabinet Minister among the guests at the annual dinner last week. This, we believe, was a new step on the path of glory. A Lord Mayor was caught a few years ago, and, as far as clothes and jewellery go, he was finer to look upon than the President of the Board of Trade. It may be that he ranks before him in tables of precedence; but in popular estimation—in that of London, at all events—the Lord Mayor's star is on the decline, while the heads of the Government Departments are becoming continually more important personages.

The heads of the medical profession and leading representatives of science in its various branches, as well as an assorted sprinkling of members of Parliament selected from both parties, have for years honoured the Society with their company, and many of them have expressed their complimentary congratulations. Certainly a society which has such distinguished persons on its visiting-list may be said to have acquired a good respectable position in the world, and must have some qualifications which entitle it to its honours. Among ourselves we have no doubt as to its claims, but we are sometimes a little mystified as to the reasons which these eminent outsiders may have for the respect which we believe they entertain for it. Is it as a scientific or as a trading society that they regard it? They often compliment it and its officers on its scientific position, but its claims in this respect are a little vague. It includes in its membership a number of persons interested in scientific progress, and some who may be classed among scientific workers. But this circumstance is rather accidental than essential. It contributes money towards the maintenance of a research laboratory and towards the endowment of a technical college, but so do other institutions which do not profess to be scientific societies in any degree. Its claim to a scientific reputation is only to be substantiated by its evening meetings, and its blindest admirers would hardly rely much upon these. Probably in the world in which it moves it owes more to its Greek name, and to the occasional references to the work done by its ally, the Pharmaceutical Conference, the credit of which goes regularly to the older Society, than to any definite knowledge of its aims and accomplishments.

As a guild of traders it might have an undeniable right to an honourable position, but its apologists are generally singularly modest in regard to its services in this direction, and distinguished guests seem more chary of giving their countenance to trade organisations in full activity than to the extinct volcanoes like the city companies—trade guilds which have retired from business. In a century or so the Pharmaceutical Society will probably have attained that dignity, and it may then be able to entertain Royal Dukes and Prime Ministers.

The Society appears from the report of the election of Council to have an actual voting-strength of 3,800 members. We are not by any means disposed to regard this number with disdain. It is a formidable body of men united in a common interest, and all the stronger and more efficient from the fact of the organisation being entirely voluntary. Of the 3,800, only a little more than a moiety exercised their franchise at the recent election. This, too, is not a subject for criticism. There was absolutely no question at-

issue, and it is surprising that so many as 2,000 should have taken the trouble to record their preferences for persons known only to most of them by name. It is also noticeable how loyal the great mass of the members of the Society are. With a steady force, which only varies under quite exceptional circumstances, they vote for those who have previously represented them, so that there is but rarely an opening for a new man until one of the old Councillors thinks proper to retire. Who will complain of this? If men serve you fairly well, is it not right to retain their services so long as they are willing to render them? Incidentally, this shows how little the usual criticisms of the annual meeting voice the general sentiment.

The essential business of the Pharmaceutical Society from a public point of view seems to be the fair enforcement of the Pharmacy Act. Whatever else it does is incidental, though it may tend to give the Society its tone and character. It is fair to remember that the vague demands which we continually hear that the Society should "do something" which would secure chemists from disastrous competition are impossible of fulfilment, unless it be in the most gradual manner. What is desirable is that the officers of the Society should be kept up to, at least, the present standard of energy in carrying out the law as it now exists.

#### HOW FARADAY MADE LIQUID CHLORINE.

In the course of his lecture recently at the Royal Institution on the liquefaction of gases, Professor Dewar told the audience the circumstances under which Faraday first made liquid chlorine. Dr. Paris, on his way to dine with Humphry Davy, found Faraday in the Institution laboratory heating a sealed tube containing chlorine. Seeing that the inside of the tube looked oily he reprimanded Faraday on his carelessness in using dirty vessels. Next day he received a laconic note:—"Dear Sir,—The oil you noticed yesterday turns out to be liquid chlorine." Although Faraday has the credit of first liquefying chlorine, a gentleman named Northmore had done it before him.

#### HOW HIS LIFE WAS SAVED.

It would be a nice object-lesson for coroners' juries if a record could be kept of the number of lives which chemists have saved by supplying harmless physic when customers have asked for poison under suspicious circumstances. There was a case of the kind at Bootle last week, a man being admitted into the borough hospital there suffering from laudanum-poisoning. The case was also an example of the power of imagination, because the chemist to whom the man applied for the poison suspected that there was something wrong, and only gave him 20 drops of laudanum mixed with coloured water, instead of threepennyworth of the pure stuff. Yet he suffered from laudanum-poisoning!

#### THE PHARMACY CLUB ON THE B.P.

A contributor to the *Montreal Pharm. Journal* states that the publication of the British Pharmacopœia before 1900 is now considered impossible in some of the leading circles of English pharmacists. "Indeed, at the last dinner of the Pharmacy Club one or two pointed references were made to the opposition which has arisen to Professor Attfield's editorship, and the opinion was freely expressed that at least ten years will elapse before the book can be published!" That must have been after the coffee. There are circles of leading pharmacists who think that there is nothing to prevent the new B.P. being published before the end of next year, for the material is ready to whip into shape, and a Pharmaceutical Committee has been appointed. The chief matter remaining for settlement is whether the practical work will be done in the Pharmaceutical Research Laboratory or not.

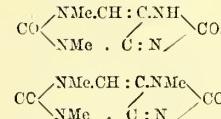
#### EXTRA-TERRESTRIAL ARGON.

Professor Ramsay has found both argon and helium in a gas obtained from a meteoric iron from Augusta County, Virginia, U.S.A. The evidence he regards as proof that argon exists in extra-terrestrial bodies, though it has not been noticed in the sun. Might the meteorite not absorb argon as it passes through our atmosphere?

#### SYNTHESIS OF CAFFEINE.

At the present time, when the production and price of caffeine are in a somewhat critical state, the announcement of the synthesis of the alkaloid has a special interest, although we must say the lines upon which Professor Emil Fischer, the successor of Von Hofmann, at Berlin, and his pupil Lorenz Ach do not appear to give immediate hope of the application of the process in a commercial scale. Substantially the reactions are as follows (we quote from *Nature's* report of the Berlin Academy Communication):—

By the condensation of dimethylurea and malonic acid the substance  $\text{CO} : (\text{NMe.CO})_2 : \text{CH}_2$  is obtained. The nitroso-derivative,  $\text{CO} : (\text{NMe.CO})_2 : \text{CH.NO}_2$ , is reduced to dimethyl-inramil,  $\text{CO} : (\text{NMe.CO})_2 : \text{CH.NH}_2$ , whence dimethylpseudo-uric acid,  $\text{CO} : (\text{NMe.CO})_2 : \text{CH.NH.CO.NH}_2$ , is produced. By abstraction of the elements of water with oxalic acid, dimethyluric acid is formed. This substance is converted into theophylline, an isomeride of theobromine, whose formula is—



—is obtained by the ordinary methyl-iodide reaction. As this is the first synthesis of caffeine, details of the methods used will be looked forward to with considerable interest.

#### A RUSSIAN GENTLEMAN IS ABOUT.

Correspondents of the *Cork Constitution* and the *British Journal of Photography* call attention to the operations of a Russian gentleman who has been going about selling at a high price a beautiful fluorescent solution for making coloured photographs. Our Cork contemporary's correspondent is "a local chemist," into whose pharmacy the learned discoverer went, and with a fine story got him to take the sole agency for, and buy six bottles of, the "celebrated 'Auto, Ortho, Chromatic Solutions' for producing colour in photography." The chemist, who seemed charmed with the beautiful fluorescence of the liquid, parted with his 5*l.* 10*s.* without much difficulty; but the joy of his achievement did not last long, and in a few days he had, by the aid of the police, run his fox to quarry and got back his 5*l.* 10*s.* To the *British Journal of Photography* correspondent (Mr. G. W. Webster, F.C.S.) the Russian gentleman tried to sell two bottles of the stuff, which on this occasion was—

"Monococylmetadihydroxylbenzolzircon-allylauromethylphthalein."

Mr. Webster does not appear to have bought the solution, but he tells of "a scientific friend in the city" who did—at 10*s.* for two bottles. We confess that we are astonished that any scientific man with a knowledge of photography should have been taken in by the Russian gentleman. The importance of colour-photography makes the peddling of any discovery regarding it too ridiculous for credence, apart altogether from the pedlar's sublime cheek. To assist in his identification we may mention that Mr. Webster speaks of him as "a tall foreigner"; and the Cork chemist says he is "a man of slight build, average height, of gentlemanly appearance, and speaks English fluently, with slightly foreign accent."

## Constructive Criticism of the British Pharmacopœia.

### X I. — PILLS.

BY J. G. F. RICHARDSON, PH.D., F.C.S., PHARMACEUTICAL CHEMIST.

THERE are pharmacists and physicians still alive who can remember the time when a dozen draughts were the medicine for the master, and a box of pills the physic for the man. *Tempora mores mutantur.* Big bottles of physic are now the rule of dispensaries and hospitals, and the pill is the acme of elegance in pharmacy. The pill has become popular with everybody, and during the last generation, especially, the variety of pills of a non-proprietary character has increased so enormously that there is no group of galenical preparations of which the official representatives are so small in number compared with the unofficial.

The last-mentioned fact makes one pause when viewing the pill group in prospect of Pharmacopœia revision. The group is largely a traditional one. Few of the pills are not popular; some of them are the most frequently asked-for medicines. To seriously alter many of them is an uncalled-for course. To attempt to augment the number would be a most difficult task, if the attempt were to be in the nature of bringing the official formulae closer in number to that of unofficial formulae that are now popular. As well attempt to compile a pill Pharmacopœia.

I am considering this matter as one with large experience of the pill-trade; also as a manufacturer and as a practical pharmacist; and my conclusion is that the sweeping changes in present official formulae which have been advocated are to a great extent uncalled for. In regard to additions, and without anticipating what I shall say later on, the chief point for consideration is that the pilular form of medication has much outrun the Pharmacopœia in the race, and there is no pressing reason why it should attempt to overtake practice in the matter. Practice is greatly the expression of the individual experience of the prescriber or the compounder. In the past it gave us such pills as Gregory's and Plummer's, which became national. But the Gregories and Plummers of to-day seldom become known beyond the district or county in which they have originated; although the actual consumption of the pills which they create may be larger than the total consumption of some which are official. Here it is that frequency of prescription is misleading.

As to omissions, I consider that it would be justifiable, and even advisable, to omit the formulae for the following, as there is practically no demand for them, and they appear to be but rarely prescribed, viz.:—Pil. aloes Socot., pil. camboge co., and pil. conii co.

The demand for coated pills has become so general, and the proportion purchased by medical men, chemists, and also the general public is now so great as compared with the old-fashioned uncoated pills, that the time seems to have arrived for them to be recognised in some manner. It would not be practicable to give directions for the process of coating them in small quantities, it now being generally admitted to be an art which can only be satisfactorily performed on a manufacturing scale. I urge the recognition of a coating because it is assumed by some that the present non-recognition implies that, say, a coated colocynth pill is not B.P. Of course, if the authorities take a different view, and consider that their formulae are for masses, and not for pills, then my suggestion may not be necessary. With

regard to suggestions for the improvement in official formulae, as I have already said, there is not much required; but the following are alterations which might be made with advantage:—

PIL. ALOES ET ASAFETIDA.—Syrup makes a much better mass than confection of roses, but it will necessarily require a smaller quantity. The formula should read—

	OZ.
Socotrine aloes, in powder ..	.. 1
Asafoetida, in powder ..	.. 1
Hard soap ..	.. 1
Syrup ..	(of each sufficient
Powdered liquorice-root ..	to produce 4 oz. of mass.

By this means the pill contains exactly 1 part each of aloes, asafoetida, and soap in 4 parts of the mass—certainly an improvement upon the indefinite quantity of excipient ordered in the present pill.

PIL. ALOES ET FERRI.—Surely the small quantity of compound cinnamon-powder present in this pill can be of little or no value medicinally. The substitution of a little capsicin or gingerin would be an improvement. Taking the formula as it now stands, this, or any pill of its kind, will mass and roll well with the following excipient, and give a much better pill than if made with confection of roses:—

Glycerine ..	.. 4 dr.
Syrup ..	.. 2 oz.
Powdered gum tragacanth..	.. 15 gr.

Mix together, and warm till a mucilage is formed.

PIL. ALOES ET MYRRH.—The glycerine ordered is not at all necessary, syrup producing a much better mass, and the pills have not a sticky appearance. The saffron is generally considered of little benefit, and might certainly be deleted.

PIL. COLOCYNTH. Co.—The oil of cloves present does not always prevent griping. The addition of  $\frac{1}{2}$  gr. of gingerin to each 5-gr. pill would be beneficial. The present excipient is certainly the best.

PIL. FERRI IODID.—The addition of a few grains of powdered tragacanth greatly improves the mass. The pills should certainly be rolled at once, and either varnished or coated, their keeping properties by this means being greatly improved.

PIL. HYDRARG. SUBCHLOR. Co.—Pills made according to the present formula soon lose their shape, and do not keep sufficiently firm. The addition of a small quantity of powdered hard soap to the mass is a great improvement. The general demand for this pill certainly warrants its retention in the Pharmacopœia.

PIL. PHOSPHORI.—This needs no alteration. The present basis of tolu, wax, and soap is much to be preferred (especially on a large scale) to either theobroma oil or suet.

PIL. RHEI Co.—The glycerine is not necessary, syrup making a much better mass.

PIL. SAPONIS Co.—The official synonym (pil. opii) is rather misleading, this being frequently understood to mean a simple opium pill. The formula should read—

Opium in powder ..	.. 1 oz.
Hard soap ..	(of each sufficient
Glycerine ..	to produce 4 oz. of mass.

This would give a definite quantity of opium in each pill, which would be more satisfactory.

PIL. FERRI.—The present official formula is greatly improved by the omission of the water.

With regard to new formulæ I would suggest the following:—

*Pil. Colocynth. et Hyoscyami c. Hydrarg.*

	Oz.
Compound extract of colocynth ..	.. .. 2
Extract of henbane .. .. .. 1	
Mercury pill .. .. .. .. 2	

Beat into a uniform mass.

Dose: 5 to 10 gr.

PIL. FERRI ET ACID. ARSENOSI.—This pill should be made according to the official method for pil. ferri, with sufficient arsenious acid very carefully mixed with the carbonate of potassium to give  $\frac{1}{100}$  gr. in each 5 gr. of the mass. Dose: 5 to 10 gr.

*Pil. Fodophylli Co.*

	Oz.
Resin of podophyllin .. .. .. .. 1	
Compound rhubarb pill .. .. .. .. 2½	
Extract of henbane .. .. .. .. 2	

Beat into a uniform mass.

Dose: 5 to 10 gr.

*Pil. Aloin. et Belladonnae.*

	Oz.
Aloin .. .. .. .. 1	
Extract of <i>Lux. vomica</i> .. .. .. .. 1	
Extract of belladonna .. .. .. .. 1	
Sulphate of iron .. .. .. .. 1	
Powdered myrrh .. .. .. .. 1	
Hard soap .. .. .. .. 1	

Beat into a uniform mass.

Dose: 2 to 3 gr.

The great demand for each of these formulæ, both by chemists and the medical profession, certainly warrants the consideration of their introduction.

In addition to the above, many simple pills are largely used, such as extract of cascara, hydrochloride of morphine, creasote, &c.; but, as these are asked for in various strengths, possibly it would not be advisable to introduce methods of massing for each, but rather leave it to the discretion of the pharmacist or the physician.

THE PHARMACEUTICAL COUNCIL AND PHARMACOPÆIA REVISION.

AT a private meeting of the Pharmaceutical Council last week Professor Henry G. Greenish, Secretary to the Pharmacopœia Committee, reported that the committee had distributed 550 lists of proposed omissions from and additions to the British Pharmacopœia to local secretaries and other pharmacists throughout Great Britain, inviting them to record their experience of the extent to which each preparation is in use, and also to make any addition they might consider desirable to either list. Two hundred and thirty-two of the lists, comprising nearly 81,000 entries, together with 157 extra omissions and 163 extra additions, were returned, and the committee, after collating and discussing them, recommended that the subjoined lists (which we reprint from the *Pharmaceutical Journal*) be forwarded to the Medical Council:—

LIST I.—OMISSIONS.

Acetum	Ammonii nitras
," cantharidis	Phosphas
Acidum aceticum dilutum	Amygdala amara
," lacticum	Anisi stellati fructus
," dilutum	Antimonium nigrum purificatum
," meconicum	Aqua pimentæ
Acouiti folia	Argentii et potassii nitras
Alcohol amylicum (transfer to Appendix)	Argentum purificatum
	Beberiæ sulphas

Bela fructus	Liquor calcii chloridi
Bismuthi et ammonii citras	" calcis chlorato
Bismuthum	" chlori (transfer to Appendix)
," purificatum	" cocaine hydrochloratis
Caleii sulphas	" ferri acetatis
Cambogia	" " pernitrat
Canellæ cortex	" hydrargyri nitricæ acidos
Cataphasma carbonis	" lithia effervescent
," conii	" magnesii citratis
," fermenti	" morphine acetatis
," lini	" " bimeconatis
," sinapis	" sulphatis
," sodæ chlorinatae	" potasse effervescent
Cerevisiae fermentum	" sodae
Cetraria	" " effervescent
Charta sinapis	Lotio hydrargyri flava
Cinchonæ cortex. (Sources of quinine)	Lupulin
Cinchonidine sulphas	Manganesi oxidum nigrum
Cinchonina sulphas	Marmor album
Confectio opii	Masticæ
," rosæ caninæ	Maticæ folia
," scammonii	Mica panis
," terebinthinae	Mistura creasoti
Cupri nitras	," ferri aromatica
Cusparie cortex	," olei ricini
Cusso	," scammonii
Decoctum cetrarie	," spiritus vini gallici
," granati radicis	Mori sucesus
," hordei	Morphine sulphas
," papaveris	Mucilago amylifi
," pareiræ	Nectandra cortex
," quecreus	Oleo-resina cubebre
Eccballii fructus	Olcum copaiba
Elaterium	," phosphoratum
Elemi	," pimentæ
Emplastrum ferri	," rutæ
," plumbi iodidi	," sabinæ
Enema aloes	Os ustum
," asafætidæ	Ovi albumen
," magnesia sulphatis	," vitellæ
," opii	Physostigmina (alkaloïdæ)
," terebinthinae	Picrotoxinum
Extractum aconiti	Pilula aloes Socotrinæ
," belæ liquidum	," cambogia composita
," calumbæ	," ferri carbonatis
," colchici	," scammonii composita
," jaborandi	Pimenta
," jalapæ	Plumbi carbonas
," lactucæ	," nitras
," lupuli	Potassii cyanidum
," papaveris	," ferrocyanidum
," pareiræ	," tartras
," quassiae	Prunum
," rhamui frangulae	Qnereis cortex
," stramonii	Rhamni frangulae cortex
Farina tritici	Rosæ caninæ fructus
Ferri peroxidum hydratum	Sabinæ cæcumina
Fliens	Santonica
Glycerinum acidæ gallici	Sodiæ arsenias (cryst.)
Granati radicis cortex	," nitris
Hemidesmi radix	," valerianas
Hordeum deorticatum	Sodium
Hydrargyri persulphas	Spiritus cajuputi
Infusum anthemidis	," cinnamomi
," caryophylli	," juniperi
," catechu	," lavandulae
," euspariae	," vini gallici
," cusso	Stramonii semina
," jaborandi	Sumbul radix
," kramerize	Suppositoria acidi carbæci cum sapone
," lini	Suppositoria acidi tannici cum sapone
," lupuli	Suppositoria hydrargyri
," maticæ	," morphine cum sapone
," urei ursi	Syrupus ferri subchloridi
Kamala	," hemidesmi
Lac	," roseæ gallicæ
Lactuca	Tabaci folia
Laricis cortex	Tinctura aloes
Linimentum hydrargyri	," coeci
Liquor acidi chromici	," croci
," ammonii acetatis	," ergotæ
," citratis	," ferri acetatis
," antimoniæ chloridi	," gallæ

Tructura jalapa	Unguentum plumbi acetatis
" curcis	" carbonatis
" a. i. n.	" potassae sulphuratis
" tr. monii	" sabinae
" sumbul	" terebinthinae
" veratri viridis	Uvae
Trochisci catechu	" ursi folia
" ferri redacti	Vapor acidi hydrocyanici
" opii	" chlori
" sodii bicarbonatis	" conine
Unguentum antimonii tartarati	" iodi
" calamine	Veratri viridis rhizoma
" conii	Vium aloe
" creasoti	" ferri citratis
" elemi	" rhei
" eucalypti	Zincum
" gallae	" granulatum
" hydrargyricompositum	

## LIST II.—ADDITIONS.

Acidum hydrobromicum, s.g. 1.303	Guaiacol carbonate
Acidum hypophosphorusum	" crystals
Ammonii iodidum	Hydraz. et zinc. cyanidum
Beuzonaphthol	Ichthylol
Bismuthi salicylas	Linimentum menthol
Caffeinae citras effervescentes	" capsici
" hydrobromas	Linteum acidi borici
Carbasus hydraz. et zinci cyanidi	Liquor coccii
" iodiformi	" pancreaticus
" phenolis	Lotto acidi borici
" sal alembroth	" carbolici
Chloralamide	Morphine tartras
Chloroformum camphoratum	Naphthalene
Chrysarobinum purificatum (commonly known as chrysophanic acid)	$\beta$ Naphthol
Cocaina (alkaloid)	Ol. carbolisatum
Codeinæ phosphas	Physostigmine sulphas
Elixir aurantii	Quininae hydrobromas
" cascara sagrada	" phosphas
Eupalastrum bellad. liquidum	" salicylas
Extractum "	" valerianas
" gummi rub. liquidum	Resorcinum
" hamamelidis (P.G.)	Salol
" dest.	Sodii arsenias exsiccatus
" ippecacuanhae liquidum	Solutio ethyl nitritis
" iridis sicc. (iridi)	" hydrogenii peroxidi
" jaborandi liquidum	Strychnine sulphas
" mali	Syrupus codeinæ
" cum ol. morrhuae	Syr. ferri phosph. comp.
" liquidum	" " et quin. et strychn. phosph.
" tritici liquidum	Syr. ferri hypophosph. co.
Eucalyptol	" picis liquidæ
Glycerinum acidi borici	" pruni virg.
" belladonae	Terebene
" pepsinæ acidum	Tinct. ergotis ammon.
Glycogelatinum	Troch. (or pastill.) cocaine. hydrochlor.
Gossypium acidi salicylici	Troch. (or pastill.) codeinæ
" sal alembroth	" " gummi rub.
" iodiformi	" " Krameriae
" phenolis	Unguentum hydrarg. ox. flavi

The Council decided to send the foregoing lists to Sir Richard Quain, President of the General Medical Council.

FOR chronic diarrhoea a *B. M. J.* contributor recommends liq. hydrarg. perch. mij. every half-hour in a little pure water, commencing an hour before rising; or the following: Resina podophylli gr.j., spir. vin. rect. 5ss. Of this give mij. every half-hour, commencing an hour before rising, and a milk diet. ? Homeopathic.

EXPORT DUTIES ON MEXICAN DRUGS.—Two years ago export duties were only leviable in Mexico on cabinet-woods and orchil, but when silver began to fall, and the price of all exported articles rose in a corresponding degree, the Minister of Finance imposed duties upon other goods also. It now appears from a statistical return that on "chicle," or chewing gum, which has had placed upon it an export-duty of 2s per kilo., the actual exports have been: In 1892-93 971,674 kilos.; 1893-94 1,202,601; the estimated exports in 1895-96 are 1,200,000. In Vanilla (export-duty of 40c. per kilo.) the actual exports have been: 1892-93, 92,577 kilos.; 1893-94 70,041; the estimated exports in 1895-96 are 70,000.

## Sir Richard Quain on the Pharmacopœia.

THE fifty eighth session of the General Medical Council was opened on Tuesday, and, as is customary, the President, Sir Richard Quain, Bart., M.D., delivered an address on the principal business to be transacted by the Council. On the present occasion the major part of the address was devoted to a résumé of what has been done hitherto in relation to the Pharmacopœia. As this subject is at the present time so interesting to all connected with medicine and pharmacy, we give Sir Richard Quain's remarks in full. Apart from a special interest attaches to this authoritative utterance in regard to Pharmacopœia revision.

Sir Richard Quain said:—The first notion of a national Pharmacopœia originated, according to Dr. Munk, in the Dispensatory of Dr. Valerius Cordus, issued in 1542 on the authority of the University of Nuremberg. It was described as a collection of medical recipes gathered from the works of the most esteemed writers, which he had met with in his travels. The Pharmacopœia Augustana, issued in 1601, is the reputed parent of the various Pharmacopœias that had succeeded it. The first London Pharmacopœia was issued in 1618, just a century after the foundation of the Royal College of Physicians. A second Pharmacopœia was published in 1650, a third in 1677, and a fourth in 1721, during the Presidency of Sir Hans Sloane. The authors of this work took credit to themselves "for rejecting medicines of little use, for altering formulae that were absurd and inconsistent, for excluding such as savoured of superstition, and generally for the endeavour to make the work consonant to reason and experience. . . . The compilers of the Pharmacopœia hoped to compress within moderate bulk such a variety of medicines as would satisfy as well the lover of the old as the lover of the modern prescriptions, those who preferred simplicity equally as those who still adhered to complexity in official formulæ." Such sentiments and such feelings are very much those which would seem to guide the compilers of the later editions of the Pharmacopœia.

The next edition was long in preparation, and, with a few exceptions, it may be regarded as a new work. It was published in 1746, and may in every respect be looked upon as a great improvement on the edition of 1721, and the third edition that had preceded it.

Successive editions, at intervals which averaged about twenty-five years (the average interval of the publication of the British Pharmacopœia would seem to be about ten years), the shortest being twelve and the longest forty-four years, were prepared with more or less improvement as regards their construction. Of these the ninth, published in 1836, was the most important. It was produced under the management of the elder Dr. Babington, of Sir George Tuthill, of Dr. Paris, and of Dr. Hue, aided by Mr. Richard Phillips, F.R.S., who had devoted much attention to pharmaceutical chemistry. This Pharmacopœia was undoubtedly a great improvement upon the previous edition, and is marked by the admission for the first time of the alkaloids, such as aconita, morphia, quinia, strychnia, and veratrica, of hydrocyanic and phosphoric acids, of iodine, bromine, and preparations of creosote, ergot, and lobelia. "If," says the College, "some of these would appear as yet but little approved by experience, we have, nevertheless, included them, that whosoever should think fit to administer them may have them at hand, accurately prepared and fitted for his use."

The tenth and last edition, published in 1851, differed little from the previous edition, chloroform, cod-liver oil, tannic and gallic acids, and atropine were included, and aconite was omitted, so, too, was the bromide of potassium.

Pharmacopœias very similar to that of London were also published in Edinburgh and Dublin by the respective Royal Colleges of Physicians, but I am sorry to say that I had not time nor material for referring to them specially.

By the Medical Act (1858) the right of future publication of the Pharmacopœias of England, Scotland, and Ireland was, with the consent, asked for and obtained, of the several Royal Colleges, transferred to our Council by Clause LIV. of the above-mentioned Act, which reads as follows :—

"The General Council shall cause to be published under their direction a book containing a list of medicines and compounds, and the manner of preparing them, together with the true weights and measures by which they are to be prepared and mixed, and containing such other matter and things relating thereto as the General Council shall think fit, to be called 'The British Pharmacopœia'; and the General Council shall cause to be altered, amended, and republished such Pharmacopœia as often as they shall deem it necessary."

On the first day of the Council's first Session, November 23, 1858, a committee was appointed to report at the next meeting as to "the recommendation of a committee for preparing the national Pharmacopœia, and the powers to be conferred on that committee."

In accordance with their report a Pharmacopœia Committee was appointed, with powers to request the co-operation of the three Royal Colleges of Physicians and the Pharmaceutical Society.

This committee appointed sub-committees for England, Scotland, and Ireland, the members of which, as experts in certain departments, were to undertake the preparation of the work. The sub-committee in London consisted of the following members of the Council :—Sir James Clark and Mr. Nussey, and as experts Dr. Farr, Dr. Garrod, Mr. Peter Squire, and Mr. Warington; in Edinburgh of Dr. Christison, Dr. MacLagan, and Dr. Wilson; in Dublin of Sir Dominic Corrigan, Dr. Aquilla Smith, Dr. Apjohn, Mr. Leet, and Dr. Nelligan.

It appears that this issue of the Pharmacopœia, after much pains and trouble had been expended on its preparation, was ready for publication in November, 1863—that is, five years after its inception. It was resolved that it should be issued in two sizes, demy 8vo. and 12mo., and of the former size 13,000 copies were printed, and of the latter 15,000.

The cost of the preparation of this edition seems to have been £2297., of which 4,430/- were paid for "authorship and editing."

The work when complete was, according to Act of Parliament, submitted to the Treasury, to decide on the price, and by the Treasury it was referred to the Controller of H.M. Stationery Office, who reported that the publication might have been got up in a far less expensive style for less than half the cost of printing and binding. The Executive Committee thanked the Secretary of the Treasury for his communication, and gave an assurance that in future editions his recommendations should receive attention.

This work had scarcely issued from the press when faults in it and objections against it were found on all sides. Sir Thomas Watson, whose great experience, prudence and moderation in language could not be questioned, declared from the chair of the College of Physicians, that the work was a "dangerous one," and must not be used. The result was that this edition was virtually suppressed, to the great pecuniary loss of the Council. This result could not be read as favouring the appointment of special experts in the construction of the Pharmacopœia, inasmuch as the committees which prepared this issue were largely composed of eminent experts. It seemed to me then, who had recently been nominated by the Crown as a member of the Council, that the Council must prepare a revised issue of the work. On a motion made by me on April 27, 1864, and adopted by the Council, a committee was appointed to consider and report on the arrangements to be made for producing a new edition of the British Pharmacopœia.

The committee, as ultimately appointed, consisted of only five members—the President (Dr. Burrows), Dr. Christison, as Chairman, Dr. Sharpey, Dr. Apjohn, and myself as Honorary Secretary—and by these gentlemen the second edition was prepared for the press. Dr. Christison, Dr. Farr, and Dr. Apjohn, who had rendered assistance in the preparation of the first edition, were requested to continue their services as reporters.

On April 15, 1865, the committee reported that they had engaged the services of Mr. Warington, F.R.S., of the Society

of Apothecaries, and Dr. Redwood, of the Pharmaceutical Society, to aid in the preparation of this edition.

When this work was completed by the committee above-named and their pharmaceutical assistants, the Council was so well satisfied with the result that they voted an honorarium of 500/- to the committee. It should be mentioned that Mr. Warington's health failed, and that Dr. Redwood had then sole charge of the conclusion of the work under the control of the committee. The book was ready for the press on March 15, 1867, and 20,000 copies were ordered to be printed. In all, 40,000 copies of this edition, which met with universal approval, were sold. In 1866 a memorial was presented to the Council from the meeting of the British Association at Birmingham, requesting that the sum of 250/- might be placed in the hands of a committee to be used for the promotion of therapeutical investigations. Upon this it was resolved—

That the proposed investigation of the subjects referred to does not come within the province of the General Medical Council, nor, were it in its power, has it any legal authority to expend funds on such inquiry.

A third edition of the work was called for, and prepared in 1885 by a committee consisting of myself as chairman, Dr. Aquilla Smith, Sir Henry Pitman, Professor Macnamara, Mr. Collins, Mr. Bradford, and Dr. Haldane. The lamented death of Mr. Warington since the issue of the previous edition led to the appointment of Professors Redwood, Attfield, and Bentley as editors of the work under the supervision of the committee. Of this edition 40,562 copies have been sold up to the present time. The amount of profit on the sale of this last edition and the Addendum for the last ten years is, roughly, 1,400/-.

It must be mentioned that, in 1874, an Appendix was prepared by Dr. Attfield, as editor, Professor Redwood's health having then failed, which was inserted in the reprints of the edition of 1867. In 1890 an Addendum to the Pharmacopœia of 1885 was prepared by Dr. Attfield as editor, with the valuable co-operation and assistance of a committee of the Pharmaceutical Society, and of this work 13,502 copies have, so far, been circulated.

After an interval of ten years since the last edition of the Pharmacopœia was published, it is proposed to issue a new edition. In this interval very considerable movement has taken place in all the matters which relate to the composition and construction of the Pharmacopœia. It may well be questioned whether that movement is in all instances one of progress; but, whether it is so or not, it is the duty of the Council to take care that, in all that relates to it, the work is as accurate and complete as the most diligent research, care, and experience can make it. With a view of obtaining the fullest information on the subject, communications have been addressed to the whole of the licensing authorities, inviting suggestions as to additions, omissions, and emendations, and sixteen of these bodies have responded. The reports with which they have favoured the Council show the great interest and care which they have devoted to the subject. All these reports have been printed for the use of the Pharmacopœia committee. A request for co-operation in the work was also addressed to the Pharmaceutical Society, which has responded by sending a report on the articles which, in the opinion of the Council, could be added to or omitted from the Pharmacopœia. The Council are greatly indebted to the several medical licensing authorities for the assistance which they have thus rendered. Communications have also been received from India and the Colonies through official sources.

The interest which the preparation of the Pharmacopœia has excited might be judged by the numerous papers which have appeared in the various journals, and by communications from other sources. It will be the duty of the Pharmacopœia committee, increased in number if thought fit by the Council, to thoroughly investigate these various communications, of which analyses and summaries have been prepared for their convenience by the editor. For this purpose it will be necessary for the committee to hold a special meeting during the summer or autumn, as may be most convenient to the members, the fees for which should be as for a meeting of the executive committee, according to a former precedent.

The conditions under which the Pharmacopeia committee act are:—They will have to regard, first, the legal definition of their duties as set forth in the Medical Act; secondly, they will have to regard their duties to the profession, which will require them to decide as to those preparations which should be omitted and those which should be introduced—to repeat a quotation of the remarks of the College of Physicians, by rejecting medicines of little use, altering formulae that are absurd and inconsistent, excluding such as savour of superstition, and, generally, endeavouring to make the work consonant to reason and experience; they have, thirdly, to regard the interests and education of pupils who have to make themselves acquainted with the contents of the work. Above all things it is desirable that the Pharmacopeia should not be made a book on therapeutics and pharmacology. To do this would be to introduce a great novelty into the practice of physic, that is, the treatment of disease by Act of Parliament. My conviction is that the forthcoming edition of the British Pharmacopeia will be one worthy of the Council under whose direction it is issued.

#### APPOINTMENT OF COMMITTEE.

Later in the day it was agreed that the Pharmacopeia Committee should consist of the President of the Council and eight members, of whom four should be English, two Scotch, and two Irish, the committee to have charge of all matters relating to the preparation and publication of the Pharmacopeia, and to report from time to time to the General Medical Council. This was made a standing order, and on its terms the Council appointed the following members:—The President (Chairman), Sir Dyce Duckworth, Dr. Leech, Dr. Atthill, Mr. Carter, Dr. Tuke, Mr. Charles Moore, Dr. MacAlister, Dr. McVail.

### Trade Notes.

THE LIQUOR CARNIS COMPANY intend to call their Shepperson's meat-juice "L.C.C. Meat-juice" in future. What does the London County Council say to this?

BLEASDALE (LIMITED), of York, are offering the "Spider" a sticky fly-paper, which they have considerably improved this summer. It is put up in unique style in triangular boxes.

A SPECIAL first-class certificate, equivalent to a gold medal, has been awarded to Messrs. Burroughs, Wellcome & Co. for their tabloids of pure compressed tea at the Hobart (Tasmania) Exhibition 1894-95.

MESSES BLONDEAU ET CIE. inform us that they have removed their offices and warehouse to new premises, adjoining their works, in Malden Crescent, Kentish Town, N.W., to which all communications should now be addressed.

MR. G. MELLIN intimates that he has now completed his scheme of guaranteeing to all retail vendors of Mellin's food a minimum profit of 10 per cent. on the wholesale price. The terms embodied in the agreement which dealers will have to enter into are set out in our advertisement pages this week.

WE were pleased to notice last week that Messrs. A. & F. Pears (Limited), acting upon our suggestion of a fortnight ago, supply their boxes of magic at half-price to chemists for retailing. The offer shows how well disposed the firm are to chemists, and that they are willing to "give them a bit" when they have the chance.

MR. FELIX N. ROTH, M.R.C.S., L.R.C.P., in a paper on malarial fever among white men in Warri, West Africa, published in the *Lancet* pays a compliment to palatinoids. He says the hot, moist climate of Warri acts injuriously on the drugs, especially on the liquid ones, and of the solid forms he has tried he prefers the palatinoid form, because they are easily swallowed, leave no disagreeable taste in the mouth, act quickly, and, when sent out in glass-stoppered bottles, keep better than any other form of drugs in the West African climate. One drug in particular which he had to use in many cases—morphia  $\frac{1}{4}$  gr. palatinoids—was in as perfect a condition after sixteen months on the West Coast as it was on the day it arrived.

### New Companies and Company News.

CARTWRIGHT & CO. (LIMITED).—Capital 5,000*l.*, in 10*l.* shares. Objects: to acquire, take over as a going concern, and carry on the business of a soap-manufacturer, carried on by W. A. Cartwright at Cefn, Ruabon, co. Denbigh.

WENGERS (LIMITED).—Capital 50,000*l.*, in 10*l.* shares (of which 2,000 are 6*l.* per cent. cumulative preference). Objects: To acquire, take over as a going concern, and carry on the business of a colour and chemical manufacturer and potters' merchant carried on by Albert F. Wenger, at Parker Street, Hanley, Staffs.

BUTE DRUG STORES (LIMITED).—Capital 300*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, drug-merchants and store-keepers. The first subscribers (each with one share) are:—Wm. Jenkins, 10 Pitman Street, Cardiff, chemist's assistant; P. Bennett, 100 Plasturton Avenue, Cardiff, chandler; W. R. Thomas, 8 Lower Cathedral Road, Cardiff, traveller; D. O. Jenkins, 30 Louisa Street, Cardiff, merchant; Wm. L. Jones, 98 Diana Street, Albany Road, Cardiff, analytical chemist; W. J. P. Milford, 30 Machen Place, Cardiff, bookkeeper; Mrs. E. Jenkins, 31 Louisa Street, Docks, Cardiff; Mrs. A. L. Jenkins, 10 Pitman Street, Cardiff. William Jenkins is the first managing director. Registered office, 30 Louisa Street, Docks, Cardiff.

NEW AERATED BEVERAGE AND BUFFET COMPANY (LIMITED).—Capital 15,000*l.*, divided into 899 preference and 31,321 "A" shares of 1*s.* each, and 13,389 "B" shares of 1*l.* each; to acquire the business carried on by the Aerated Beverage and Buffet Company (Limited), to adopt an agreement for the purpose, and to carry on the business of aerated and mineral-water manufacturers and dealers, bakers, pastry-cooks, confectioners, jam, pickle, sauce, vinegar and cordial manufacturers, patent and other medicine manufacturers and vendors, &c. The first directors (to number not less than two nor more than five) are Dr. R. M. Inman and Wm. Barker. Qualification, 200 shares. Remuneration, 50*l.* each per annum, and 75*l.* for the chairman, to be increased according to dividend. Registered office, 107 High Street, Kingsland.

INGRAM & ROYLE (LIMITED).—Capital 32,500*l.*, in 10*l.* shares. Objects: To acquire, take over as a going concern, and carry on the business carried on by Henry W. Royle as "Ingram & Royle" at London and Liverpool, as an agent for the sale of natural and artificial aerated and mineral waters, and beverages, syrups, cordials, essences, compressed gases, and other articles and products, and to enter into an agreement with the said vendor. The first subscribers are:—H. W. Royle, 52 Farringdon Street, E.C., mineral-water agent (3,243); Mrs. H. W. Royle, Miss M. E. Royle, Henry J. Royle, analytical chemist, and Miss E. C. Royle, all of Minster Road, Cricklewood, N.W.; E. A. Wallis, 22 Middle Street, Brighton, mineral-water manufacturer; Thomas C. Royle, 7 Old Swan Lane, E.C., merchant; all with one share each. The first directors (to number not less than four nor more than six) are H. W. Royle, H. J. Infield, James Bradford, and E. A. Wallis. No qualification or remuneration. [We are asked to state that this conversion has been made for private reasons].

EDWARDS' DESICCATED SOUP (LIMITED).—A statutory meeting of the shareholders of this company was held last week at Belfast, when a statement of the trading during the past nine months was submitted by the liquidator, showing a net profit of about 6,000*l.* This was deemed to be highly satisfactory, having regard to the many drawbacks which have been experienced.

BRETT & CO. (LIMITED), YOKOHAMA.—A meeting of this retail chemists' company was held at Yokohama on March 26. Mr. J. F. Lowder, managing director, was in the chair. The report showed that the profits for 1894 were £10,819, in 1893 they were £15,733. Mr. Lowder stated that the decrease in profits seemed to be due largely to a

neglect in regard to the prices of drugs, not sufficient account being taken of the fall in the value of the exchange. After discussion it was resolved to form a small committee of inspection and to reduce some of the expenses. Mr. Lowder will continue to act as managing director, but with no fee.

**WEST RIDING DRUG COMPANY (LIMITED).**—The shareholders in this concern, having come to the decision that it could not continue its business on account of the liabilities, met on May 15 at 3 Newsome's Yard, 135 Briggate, Leeds, and passed a resolution for the voluntary winding up of the company, and appointed Joseph Croft, C.A., of Dewsbury, the liquidator. The company was registered on May 2, 1893, with a capital of 1,000*l.*, in 10*l.* shares, to carry on the business of chemists, druggists, oil and colourmen, dry-salters &c. The last return, made up to August 8, 1894, and filed on September 6, shows that fifty-one shares have been taken up and paid for in full. The only shareholder connected with the trade is Joseph Dowson, chemist, of 6 Lansdown Terrace, Wakefield, with one share. Registered office, 57 Kirkgate, Wakefield.

**COLLISS' DIGESTIVE FOOD COMPANY (LIMITED).**—This company was registered in January, 1894, to acquire the business of digestive-food manufacturers carried on by Messrs. Collius. The nominal capital was 6,000*l.* (2,000 preference and 4,000 ordinary shares). A winding-up order was made against the company on May 1, upon the petition of Mr. Curwen Cisterson, a director, and the statutory meetings of the creditors and shareholders were held last Tuesday, at Carey Street, W.C., before Mr. Winears, Assistant-Receiver. In commenting upon the case, the Chairman said the whole of the shares had been allotted and called up in full. When the winding-up order was made there were calls outstanding to the amount of 50*l.*, but since then 37*l.* 10*s.* had been recovered by the Official Receiver. The consideration to be paid to the vendors was 4,093*l.*—100*l.* cash and 3,993*l.* in shares. The vendors were also to be appointed managers for ten years. No prospectus was issued to the public. The company commenced business in May, 1894, and traded until the following September, when the premises were closed. There was only a small indebtedness, comprising solicitors' charges, a few small amounts for goods supplied, preferential claims for rent, rates, taxes, and salaries, and fees to directors. The assets included machinery and stock, valued together at 700*l.* by the directors (which appeared excessive), and two leases of no value. The failure was caused by want of capital, which prevented the food from being properly advertised. There had been several suggestions for reconstruction, but as yet they had come to nothing. A Director stated that the food was manufactured by a secret process, but no value had been placed thereon by the directors in the statement of affairs, as they had been unable to obtain an offer for it. Mr. Mitchell, who attended the meetings on behalf of Messrs. Collins, said he was in negotiation with a client, with a view to a resumption of the business, which was valueless without the co-operation of Messrs. Collins. In the absence of a quorum, the meeting was adjourned for a fortnight. The following are the principal creditors, viz. :

	£ s. d.
Carlton, J. E. W. (director's fee)	.. .. .. 50 0 0
Cisterson, Curwen do.	.. .. .. 50 0 0
Dyson, Weston do.	.. .. .. 25 0 0
Farwey & Co., Upper Thames Street, E.C.	.. .. 17 4 4
Fox, Sessions & Co., Austin Friars	.. .. .. 21 0 0
Holmes, A. H., King Street, Cheapside	.. .. 75 6 8
Potter, Sandford & Kilvington, King Street, E.C.	.. .. 15 0 0
Yeoman, W. (director's fee)	.. .. .. 12 10 0
Salaries, rates, and taxes..	.. .. .. 23 18 10

A BUFFALO shoemaker has a card in his window reading: "Any respectable man, woman, or child can have a fit in this store."

**AN AID TO PRESCRIPTION-WRITING.**—Doctor (to fair patient): "Put out your tongue." (Meanwhile he writes a prescription.) "There, that will do." Miss Chatterbox: "But, doctor, you did not even look at my tongue." Doctor: "No; I only wanted you to keep quiet while I wrote the prescription."—*Gillustreed Stuiversblatt.*

## Midland Pharmaceutical Association.

THE annual meeting of the Midland Pharmaceutical Association was held on Wednesday evening at the Mason College, Birmingham. Mr. R. Dalton Gibbs (President) occupied the chair, and there were present Messrs. A. Southall, J. Barclay, G. E. Perry (Hon. Sec.), W. Jones, F. H. Alcock, C. J. Jarvis, C. Thompson, F. H. Prosser, and F. T. Gibson (Leamington).

The annual report of the Council stated that the Association numbered 172 members. The opening meeting of the session was held on October 18, when an address was given by the President, Mr. R. Dalton Gibbs. A record was given of the various meetings which had taken place during the year, and it was explained that the chief matter brought under the consideration of the Council had been the opening of classes in chemistry at the Midland Institute for pharmaceutical students. Those classes had met with the support of a goodly number of students, who had expressed themselves as well satisfied with the work so far accomplished. Matters also of trade interest had been under consideration by the Council, particularly the vexed one of company-trading. Owing to the lack of interest taken in the ball by the members generally, resulting the previous year in an adverse balance of 10*l.*, it was decided that it be dispensed with this year. There had been no calls upon the Benevolent Fund during the twelve months. Several books had been added to the library. The Council concluded by expressing a hope that in future sessions a larger number of members would actively participate in the work of the Association. The account showed a balance in hand of 14*l.* 18*s.* 9*d.*

The CHAIRMAN, in moving the adoption of the report, said that whilst several points had come before the Council of some importance, the year had not been one of considerable excitement. The proceedings of the Association had been far quieter, perhaps, than was satisfactory to the well-being of the organisation. Among the papers which had been read, that contributed by Mr. Jones was exceptionally interesting. The attendance at the meetings had been meagre and unsatisfactory. It had been painful to him to occupy the chair on occasions when gentlemen had submitted papers which had cost them considerable trouble to prepare, and when they had been listened to by such small audiences. Though they had not been very successful from the scientific aspect, their social gatherings had been eminently satisfactory, and as the Society existed for social as well as intellectual purposes, he thought they had been wise in having such meetings. Various opinions had been expressed as to the utility or otherwise of the pharmaceutical classes held at the Midland Institute. The general opinion on the Council had been that they should not hinder such classes—they would be held in spite of the Association—but that they should help to shape them in a manner which would result in their being educational agencies. Mr. Woodward, the science teacher, had shown himself anxious to acquiesce in the wishes of the Association. He had explained to that gentleman, on behalf of the Association, that they were interested in the work from the educational standpoint, but that, if the classes were intended as coaching or cramming classes with the view to cramming young men for the pharmaceutical examinations, the Association would not lend themselves to any such methods. It was, he considered, very necessary that the rising generation of chemists should be kept well abreast of the times, and it could not be denied that there were men outside their ranks who had even a wider knowledge of chemistry than those who were masters of the craft. That they must remedy, and the remedy would be forthcoming by an increase of education. The question of company-trading was a very sore one amongst chemists, and he did not think sufficient discussion had been devoted to the subject to enable the Council to offer any definite suggestions as to what course should be taken. Having referred to the question of early closing and to the proposal for the federation of local pharmaceutical associations, the President alluded to the financial position of the Association, which he described as satisfactory.

Mr. W. JONES, in seconding the resolution, expressed the

hope that they should make arrangements with the Birmingham Technical School now in course of construction.

Mr. A. SOUTHALL said they did not seem to have accomplished a very brilliant year's work but he supposed they must be satisfied with small things. Their lectures were not attended as well as they ought to have been, and he trusted the Secretary would be encouraged to spend a little money in advertising them. Whilst they found, too, that in connection with the national Pharmaceutical Society there were many calls on the Benevolent Fund, he was pleased to see that not a single application had been made to the local fund during the year.

Mr. C. THOMPSON considered that it would have been well to have mentioned in the report the questions of early closing and the federation of local associations, and

Mr. ALCOCK said he was satisfied that if the scientific meetings had been advertised in the same way as the social ones, the response would have been more satisfactory. The subjects discussed had been thoroughly pharmaceutical.

Mr. PERRY replied that all the meetings, except the last, had been notified in the usual way in the trade journals.

The resolution was carried.

The retiring members of the Council were re-elected.

Mr. THOMPSON moved, and Mr. J. BARCLAY seconded, a vote of thanks to the President, the Hon. Secretary, and officers of the Association for their services during the past year.

Later in the evening the members met at supper at the Grand Hotel, under the presidency of Mr. Gibbs. In the course of the evening Mr. F. T. GIBSON proposed "The Pharmaceutical Society." Mr. SOUTHALL, in response, said that since he had been a member of the Council he had been very much pleased with the working of the Society. It did not do as much as it might, but it did a great deal more than many outsiders imagined. Much had been accomplished in the direction of prosecutions, but the Society did not publish details, because it would be libellous. But these prosecutions had been of the utmost use in disturbing grocers who dealt in patent medicines, and a considerable proportion of the grocers in the metropolis had given up entirely selling such medicines, and they hoped to do much more in the country of a similar kind. He showed also how the Society had rendered support to chemists in cases of need. Mr. C. THOMPSON also replied. Mr. BARRETT (Leamington) proposed "The Midland Pharmaceutical Society," and appealed to all chemists to insist upon their members of Parliament getting an alteration of the law, with the view to preventing the unfair competition to which chemists are subjected. This view was also supported by Mr. SMITH (Leamington), who urged that the Association should issue a circular, in view of the General Election, asking candidates whether they were in favour of an amendment of the Pharmacy Act. If they were not, then, apart from political consideration, they should strive to the utmost to prevent their return. The PRESIDENT, in acknowledging the toast, mentioned that Mr. Chamberlain had signified his willingness to receive a deputation from the Society to point out the grievances from which chemists suffered. He urged the appointment of a local permanent secretary, who would go round and see the members of the trade, and induce them to combined action. Mr. PERRY also replied.

During the evening several gentlemen contributed vocal selections.

**FORMAL AS A DISINFECTANT.**—A recent meeting of the Paris Therapeutic Society a paper by Dr. Trillot was read giving the result of experiments made by him at the Cochin Hospital with regard to the use of formal for disinfecting hospital-wards and other large premises. The apparatus employed is a pressure-generator throwing jets of methylic-alcohol vapour on red-hot cores of platinum. About  $2\frac{1}{2}$  litres of methylic alcohol are necessary per 100 cubic metres for sterilising wards containing cultures of charbon, diphtheria, tuberculosis, &c. After being disinfected with formal a room requires five or six hours of ventilation, it being dangerous to breathe air charged with formal on account of its irritating effect on the lungs. The cost of disinfection by formal is about 4 fr. per 100 cubic metres. Furniture is not affected by it, except drapery. Formic aldehyde is also of considerable use for the preservation of delicate anatomic specimens.

## Literary Notes.

A NOVEL of a semi-political character, called *The Story of my Dictatorship*, appeared anonymously about a year ago. It was very successful, and a second edition of it is now, we understand, in the press. The work is the joint production of two writers, both chemists—Mr. Berens and Mr. Ignatius Singer (who is chemist to a factory in Yorkshire).

MRS. J. K. SPENDER, the author of a collection of short stories called *Thirteen Doctors*, of which we announced the appearance only a few weeks ago, and of several other stories, partly of a medical character, who died recently, was the wife of a well-known physician in Bath. The deceased lady was a daughter of Dr. Edward Headland, a London physician.

THE first volume of *The Climates and Baths of Great Britain* will be published by Messrs. Macmillan & Co. some time during June. The work consists of the report of a committee appointed a few years ago by the Royal Medical and Chirurgical Society to investigate the British climate in its medical aspects and the therapeutic uses of our mineral springs.

MR. LEGGETT of the cash drug-stores, Bouler Street, Liverpool, the "anti-pharmaceutico" champion, and founder of the Protection Society which was founded in the north a couple of years ago to fight the claims of the chemists, has made a more or less valuable contribution to literature by the publication of "Leggett's Compendium of Patent-medicine Vendors, Drug-stores, Limited Companies, and Co-operative Stores dealing in patent medicines, exclusive of chemists and druggists." We make a rough calculation that the hook contains somewhat about 2,000 names and addresses of firms of the character indicated. Mr. Leggett wisely gives particulars of the Pharmacy Act, and a list of the medicines which he and his friends may not safely sell. The hook contains some other information, such as population, market-days, and early-closing days of the towns referred to. It sells at 2s.

SOME time ago the *Pall Mall Gazette* published an article on "Dentists and the Public," which was little more than a spiteful attack upon so-called American dentistry and advertising dentists; whereupon a somewhat spasmodic correspondence ensued in the paper. The whole of this has now been published in pamphlet form by King, Thorne & Stace, of Brighton. Substantially it advocates the interests of the elect in the profession, amongst whom, we need scarcely add, chemists who happen, like harbers and blacksmiths (as the pamphlet puts it), to be dentists are not included. The pamphlet is a nice example of how money may be wasted in advertising. It is worth recording that the Dean of the Dental Hospital of London took advantage of the correspondence by asking the public to help him in raising 14,000*l.* required for a new dental school.

FROM a note in the *Pharmaceutische Zeitung*, contributed by Apotheker Hohnert, of Hamburg, we observe that a German pharmacist who has resided abroad for many years, and who is at present in Hamburg, has written an *English Handbook for German Pharmacists*, which he hopes to publish shortly. The book is divided into four parts. The first deals with British and American pharmacy, and includes notes on weights and measures, dispensing, and a comparison of the British and United States with the German Pharmacopoeias. The second part is a guide to conversational English, together with an essay on English letter-writing. It is said to be quite free from the Ollendorfian absurdities or the pedagogic pedantries of the ordinary "grammar." The third section of the book deals with proprietary articles and patent medicines; and the fourth is a pharmaceutical, botanical, and chemical German-English dictionary.

## London's Sewage.

A "CHEMIST AND DRUGGIST" investigator got himself included in a large party which took a trip down the Thames one of these recent fine days to see how the sewage of London is dealt with at Barking and Crossness. Mr. McDougall, the Chairman of the Main Drainage Committee of the London County Council, was captured and made to earn his passage by acting as cicerone. From his explanations and from independent observation some facts which should be interesting to chemists were gathered in reference to London's experience in sewage-treatment. At Barking outfall works on the north side of the river there is no pumping-station, the pumping for the northern low-level sewer-system being done at Abbey Mills; but at Crossness, where the South London sewage is dealt with, there are both pumping and precipitating works. Mr. McDougall is responsible for the subjoined

### INTERESTING STATISTICS.

No fewer than 185,000,000 gallons of sewage a day, or 67,583,000,000 gallons a year, have to be pumped, precipitated, and deodorised. The total yearly cost of this is £66,000., equal to about 2*l.* 7*s.* 6*d.* per million gallons. This is equal to a charge of 6*s.* 9*d.* per house, or 10*½d.* per head of population. The daily delivery of sewage is greatly dependent on the amount of rainfall, the slightest shower increasing the volume to an appreciable extent. On March 15, 1894, a heavy and continuous rainfall of some half-inch per hour increased the daily volume passing Abbey Mills by 38,000,000 gallons. The magnitude of the plant necessary to cope with emergencies of this kind may be imagined. If the torrent, which under these circumstances comes tearing down, becomes unmanageable, there is nothing for it but to open the safety outlet and let it rush into the river; but the engineers make it a point of honour to do this as rarely as possible. At Crossness the emergency valve has not been used for two years. If the tide is low under these circumstances all is well, but should it happen to be high, the whole of London below flood-level becomes swamped with overflow surface-water, more or less contaminated with sewage. The

### TREATMENT OF SEWAGE

at Crossness consists, first, in passing it through coarse and fine filth-screens. These remove paper, corks, and coarse impurities. Some 5,000 tons of refuse are thus collected every year. It is a very rare occurrence for anything noteworthy to be stopped at the screens, the long distance the sewage travels by the pumping it receives reducing all chance bodies to small pieces. The men occasionally find empty purses, but they are always empty. After passing through the screens, the sewage is pumped up 30 feet by immense engines into precipitation-tanks of 30,000,000 gallons capacity. These tanks are vast brick chambers, with little weirs built across them at intervals. Just before the sewage enters the first tank, two side conduits discharge milk of lime and solution of ferrous sulphate, in the proportion of 4 gr. of lime and 1 gr. of sulphate to each gallon of sewage. A flocculent precipitate forms, and, as the sewage passes slowly through the tanks and over the little weirs, this settles to the bottom. The process takes about five hours. The clear, bright effluent is run straight into the Thames. In so complicated a body as sewage it is difficult to know what chemical reactions occur on the addition of the iron-lime mixture, but it is probable that the calcium sulphate ultimately formed carries down the suspended matter mechanically. The suspended matter in London sewage, by the way, is only about 27 gr. per gallon, of which 15 gr. is organic matter.

This precipitate settles on the floors of the tanks and in the angles of the weirs, and when the surface-water has been run off men go down into the tanks, and with giant squeegees, 15 feet long, and requiring a team of nine men to drive them, sweep up the deposited sludge into other tanks, where it is again allowed to settle, and the surface-water run off. The thick residual matter, containing only 90 per cent. of moisture, is then pumped up by hydraulic machinery into

tank-steamers of 1,000 tons capacity. It is taken fifty miles down the river, to Barrow Deep, and there discharged into the German Ocean. Two million tons of sludge, enough to cover Hyde Park to a depth of 2 feet, are thus carried out to sea every year, and repeated chemical examination of the sea, the river, and the Kent and Essex sandbanks proves that no particle of it comes back. To precipitate this sludge, 19,000 tons of lime and 4,500 tons of sulphate of iron are used yearly, the former being paid for according to percentage strength, and the latter at the rate of 16*s.* 9*d.* per ton. Of course, all this removal of the dangerous part of the sewage to the German Ocean has had a very beneficial effect upon

### THE STATE OF THE RIVER.

Five or six years back the condition of the Thames was positively desperate. Its waters were black and evil-smelling, and its banks mounds of filth at low tide. Now, thanks to the enterprise of the Council's engineer and chemist, and to the untiring devotion of Mr. Idris and Mr. McDougall, the river for all commercial purposes is as clean as could be expected. When the discharge into London's drinking-water of the sewage of up-river towns has been forbidden by law, we may hope for even better things. As a sign of the increased purity of the river may be mentioned the fact that fish can now get beyond Gravesend without being poisoned. In 1893 whitebait were taken at Erith for the first time for thirty years. In 1894 they interfered with the pumping arrangements at Woolwich Arsenal, dace were caught at Greenwich, and shrimps were frequently found in the samples of river-water taken for purposes of analysis off Crossness. An attempt has been made to utilise

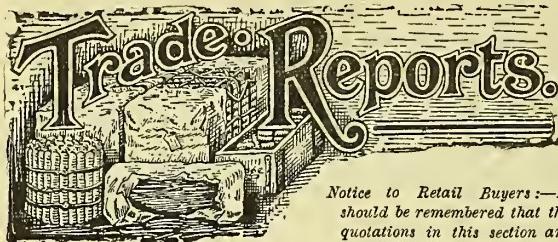
### SLUDGE AS A MANURE.

For this purpose 40,000 tons were converted into solid cake, and offered to farmers; but the stuff proved to be useless in practice, and a bid of 1*d.* a ton could not be obtained for it.

"The Council would be very glad," said Mr. McDougall to a Didymus whose economic soul wept for the loss of so much manurial potency, "to enter into a contract to supply you with several thousand tons of caked sludge per week at 1*d.* per ton; and the Council would further take a great interest in you, sir, and see that you carried out the terms of your contract." Sludge seems to be useless as a manure until it has been thoroughly oxidised by exposure to the air. Many experiments have been made to find a commercial outlet for the stuff, but they have all been unsuccessful. An acre of sludge was exposed for some time at Barking last year, when a very curious thing happened. A number of tomato plants commenced to grow from it. The seeds had passed safely through all their troubles; but the plants were weakly, and never produced much in the way of fruit.

The greatest surprise for visitors is the absence of disagreeable smells about the works. There is nothing foul or revolting about the place; in fact, the main pumping building is unnecessarily elaborate and ornate as to architecture and fittings. The great precipitation-tanks are bricked and earthed over, and the top converted into a playground and cricket-field. Clustering round the play-field, in the most neighbourly way, are the engineer's and chemist's residences and the well-built cottages of the workpeople. The general health of the little colony is excellent, and sickness is proportionately less among its members than among the men employed by the Council's Parks Committee. In the course of a stroll round one occasionally catches a sepulchral odour from an open manhole—but it is very occasionally. One has only to peep into the beautifully-fitted laboratory of the chemist-in-charge, and see the fine open prospect spread before his windows to long to throw off town bondage and breathe the bracing air of Barking Reach.

**ILLINOIS COLLEGE OF PHARMACY.**—This Chicago College, of which Professor Oldberg is the moving spirit, has just strengthened its teaching-staff by the addition of Mr. Henry Kraemer, Editor of the American "Year-book" (*i.e.*, Reporter on Pharmacy to the A Ph.A.), and Mr. J. B. Nagelvoort, who recently published a revised translation of Flückiger's "Reagents for Alkaloids." Mr. Nagelvoort is one of Parke, Davis & Co.'s scientific staff.



*Notice to Retail Buyers:*—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large

quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollectcd that for many articles the range of quality is very wide.

#### 42 CANNON STREET, E.C., May 30.

THE markets have this week suffered somewhat from the interest taken by so large a proportion of our business men in racing matters, and also by the near approach of a bank holiday. Considering these drawbacks, trade has been fairly brisk, and at to-day's drug-auctions the tone was, on the whole, good. The syndicate which has lately interested itself in camphor and one or two other articles has been working quietly towards the ends in view; but no startling change of price has taken place, nor have any new articles been added to their list. The principal market changes are as follows:—*Bark, Cape aloes, Cod-liver oil, Crude camphor, Quicksilver, Shellac, and Turpentine are dearer; Cocaine, Cream of tartar, and Menthol are lower; Tinnevelly senna, in good quality, full up.*

#### Liverpool Drug Market.

There is little or no inquiry for Arabic gum. Sorts are slightly easier, but owners have reduced their quotations reluctantly, present prices comparing unfavourably with cost. Chillis (Sierra Leone) have commanded a good deal of attention during the week, and large parcels have changed hands at prices ranging from 27s. 6d. to 32s. 6d., and now holders are talking of higher prices. Further business has taken place in African ginger, and 27s. 6d. per cwt. is now the price of ordinary quality; higher prices are sure to rule at an early date. The advance in canary seed which has been noted for the past two or three weeks has been sustained, and up to 52s. per qr. has been paid for good Turkish seed, while 52s. 6d. to 55s. is asked for Spanish. Turpentine has advanced, and now the value is 23s. 6d. per cwt. The demand for the lower grade Chilian honey has continued, and the lowest value now is 23s. 9d. per cwt., and holders are very firm in their views. Beeswax has found ready buyers at 7s. 15s. to 8s. 5s. as in quality. For fine the value is still 9s. 2s. 6d. per cwt. Cream of tartar is very firmly held at prices last named, 70s. to 71s. per cwt. for fine white crystal. Castor oil is very firm spot and forward—Good seconds Calcutta, 2d.; first-pressure French, 2d. to 2½d.; second-pressure 2d. Madras is scarce. Turmeic has experienced a movement during the week, a considerable parcel of fine Madras changing hands at 11s. per cwt., and the importers are now holding their stocks for more money.

#### Scotch Chemical Market.

The market generally has a better feeling, and great hopes are now entertained that business at last will brighten up a little. Chlorate of potash continues very firm, and inquiry is brisk, quotation being 5d. per lb., less 5 per cent. Liverpool. The spurt in sulphate of ammonia was only of short duration, and prices have dropped to 9s. 10s. per ton, f.o.b. Leith. At present it is scarcely possible to quote any alterations in other chemicals.

#### Amsterdam Drug-market.

Our correspondent, writing on Wednesday, reports that Cubes are neglected. Of second Padang *Cassia vera* there was a good deal offered (200 packages), but there were no buyers, and the same has to be said regarding the prime quality stuff, and as for the medium, 102 packages, amounting to 5,900 kilos, were offered, 11½c. per half-kilo being named as the price. At the *Gum copal* auctions, on May 31, 168 tons of hard and half hard resin will be offered, and 118 tons of softer varieties Prince Batavian *Gum Damar* has been sold at 43½c. to 44c. There has been more inquiry for *Cajeput oil*, and 1,250 bottles have sold at 115c. per bottle.

#### Newcastle-on-Tyne Chemical-market.

Our correspondent, writing on May 29, states that there is very little change to be noted. A considerable amount of business is passing, but not at very remunerative rates. There are large consignments of bleaching-powder to the Russian Baltic ports, and buyers generally show a greater tendency to operate; this, no doubt, being largely owing to the prevalent idea that prices have now touched the bottom. The anticipated closing of an outside Leblanc manufactory will certainly greatly strengthen the hands of the syndicate in this district. General current quotations are:—Bleaching-powder, softwood casks, 7l. 5s. per ton, net; hardwood casks, 7l. 10s. per ton, net; hyposulphite of soda, in 5 to 7-cwt. casks, 6l. per ton, net; in 1-cwt. kegs, the usual 12s. 6d. per ton extra, and considerable difficulty is being experienced in getting hold of any at all for prompt, makers being so fully booked forward. Soda crystals, 35s. per ton, net; white caustic soda, 77 per cent., 9l. 2s. 6d. to 9l. 7s. 6d.; 70-per-cent., 7l. 5s. to 8l.; 60-per-cent., 6l. 5s. to 6l. 12s. 6d.; 60-per-cent. cream, 6l. 2s. 6d. to 6l. 5s. Silicate of soda, different strengths, is unchanged. Blanc fine, 7l. 5s. per ton net. Pure white sulphate of alumina, 4l. 2s. 6d. per ton net; chloride of barium, 6l. 10s. per ton net; recovered sulphur is firm, at 4l. per ton net; mineral carbonate and sulphate of barytes are in good request. Precipitated, 96 to 98 per cent. carbonate of barytes, 8l. per ton net in 1½-cwt. bags. Pearl hardening, 3l. per ton net. Chlorate of potash is firm, at 5d. per lb. Sulphocyanides are slightly easier. Yellow prussiate of potash is easy, at from 7½d. to 8d. per lb. according to quantity. South Durham salt is steady, at 9s. to 9s. 6d. per ton free on board.

#### Liverpool Oil and Chemical Trade.

The continuance of fine weather and the near approach of the holidays have made the market more buoyant. Late advanced prices for many articles are well maintained, and all round things are better. *Acids:* Tartaric dearer, English quoted at 11½d. per lb. Oxalic is still firm at 3½d. per lb. *Soda:* Ash: a steady market at 4l. per ton. Caustic: still scarce at former rates. Bicarbonate remains at 6l. 15s. per ton. Crystals: very quiet at 2l. 10s. per ton. Hyposulphite: easier at 6l. 5s. per ton in 1-cwt. kegs. Phosphate: in better request, 15l. per ton. Silicate: 3l. 15s. per ton. Nitrate: in fair demand at late rates. *Potash:* Prussiate 7½d. to 8d. per lb.; chlorate selling freely at 5d. per lb.; bichromate inactive at 4½d. per lb.; saltpetre steady at 23s. per cwt. *Ammonia:* Sal ammoniac in fair request at 39s. per cwt., carbonate steady at 3½d. per lb.; sulphate lower, 10l. per ton. *Palm Oil:* The market is steady, and a fair business is passing; the sales have been—Lagos at 20l. 5s., Old Calabar 19l. 5s., Saltpond 18l. 10s. per ton. *Olive Oil:* The market is strong with a hardening tendency, besides a good inquiry for consumption and speculation, the two well-known Naples sorts fetching 39l. 10s. per ton, and even more; Levant sorts are 20s. per ton dearer. *Linseed Oil:* Liverpool refined is dearer, the spot price being 2l. 6d. *Cotton-seed Oil* is firmer, 19s. per cwt. being quoted. A large quantity of Japan fish-oil has been sold to-day. *Petroleum* is a quiet market at 5½d. for Russian and 6½d. to 8½d. for American.

#### Proposed Alteration in the Portuguese Customs-tariff.

Portugal, having long reeled upon the brink of national bankruptcy, is about to try a further "revision" of her customs-tariff as a last desperate expedient to keep herself going. It is also proposed to create a monopoly of the manufacture of matches in the country. The monopoly

rights are not, as in France, to be exercised by the State, but are to be sold by tender, at a minimum price of 44,440/- for the first 750,000 gross of boxes sold annually, with an additional 2,200/- for every 30,000 gross in excess of that number. The customs-duties upon pharmaceutical goods are to be changed as follows:—Sponges, from 1s. 2½d. to 1s. 4d. per kilo.; tanning-barks, in bulk or ground, from 1½d. to ½d. per kilo., according to kind, as at present, to ¼d. all round; quinine-salts, from 8s. 11d. to 38s. 7d. per kilo. (a quadrupling of the duty, which will then amount to over 100 per cent. upon the value of the sulphate), and is no doubt designed to encourage the manufacture in Portugal of quinine from the West-African bark; sesamum oil, pistachio oil, and other oils which may be used as adulterants of olive oil in food, from 10½d. to 12½d., and cotton-seed oil, from 10½d. to 2s. 2½d. per kilo. On the other hand, it is proposed to reduce the duties on eyeglasses, spectacles, binoculars, &c., complete or in parts, from 8s. 11d. to 4s. 5d.; on photographic sensitised-plates (packages included), from 5½d. to 3½d.; on quicksilver, from ¾d. to ¼d.; and on essential oils, from 3s. 4d. to 2s. 8d. The duty on glass tubes (up to 15 m.m. diameter) is to be modified from 1½d. per kilo. to 15 per cent. *ad val.*

#### The European Honey-crops.

A return has been published recently purporting to represent the output of "the bee-products of Europe." It states that "according to the latest details available the annual European output of beeswax is about 15,000 tons, with a value approaching 1,350,000/- Of honey the annual production is estimated at 80,000 tons, and its value at 2,200,000/- The following are the figures for the most important countries, the small balance of 5,300 tons belonging to other countries which are not named below:—

Country	Stocks of Bees	Annual Production of Honey
	No.	Tons
Germany .. .. ..	1,910,000	20,000
Spain .. .. ..	1,690,000	19,000
Austria .. .. ..	1,550,000	18,000
France .. .. ..	950,000	10,000
Holland .. .. ..	240,000	2,500
Belgium .. .. ..	200,000	2,000
Greece .. .. ..	130,000	1,400
Russia .. .. ..	110,000	900
Denmark .. .. ..	90,000	900

In the United States of America there are about 2,800,000 stocks of bees, producing annually some 30,000 tons of honey. No statistics relating to this industry are collected in Great Britain, but it is otherwise in Ireland."

We doubt the accuracy of the statistics very much. It is pretty certain, for instance, that the honey output of Russia is more than one-twenty-second of that of Germany. Why the Irish statistics, if they exist, are not included in the return is not explained.

**ACID (CARBOLIC).**—Prices are rather easier for the B.P. quality, without, however, quotable alteration.

**ACID (CHRYSOPHANIC)** is decidedly firmer, 9s. to 9s. 6d. being the quotations of British makers.

**ACID (CITRIC).**—Firm at late quotations of 1s. 1½d. to 1s. 2d.

**ACID (TARTARIC).**—Much firmer at 11½d. for B.P. quality. Foreign 11d.

**ALOES**—*Cape*: 6d. to 1s. per cwt. dearer, 35 cases selling readily in auctions; fine hard bright, 24s. 6d. to 25s.; dull and drossy, 19s. to 23s. 6d. *Socotrine*: 81 kegs good quality, but softish, offered, but, in absence of buyers, were bought in, prices asked ranging from 67s. 6d. to 70s. *Zanzibar* in skin: 21 cases medium to fair quality offered, but met with no demand, and bought in at 52s. 6d. to 75s.

**ANISE.**—Very little offered; 1 bale good Spanish sold at 30s. per cwt.

**ANNATTO.**—Holders firm, 4½d. per lb. being asked for good.

**ASAFETIDA.**—Of the 51 cases offered in the auctions only 3 cases pinky block, slightly heavy, but good gum, sold at 45s.; the rest taken out at prices ranging from 25s. to 60s. per cwt.

**BALSAM (COPAIBA).**—One cask *Maranaham* sold at the sales to-day at 1s. 9d.

**BENZOIN.**—*Siam* gum: 3 cases good blocky, part loose, sold at 13s. 10s. to 14s. 2s. 6d. *Sumatra*: Of about 100 cases offered, only 6 cases sold at from 6s. 7s. 6d. to 7s. 5s.

**BIRDLIME.**—Eleven cases (each consisting of two 40-lb. tins) *Japanese* were offered; only one bid, however, of 9d. was received, and the parcel was taken out, 1s. being mentioned as the price.

**BUCHU-LEAVES**.—Fair long leaves sold to-day cheaply, at 4d., whilst for fair green round the price asked is 2½d. to 3½d., according to quality.

**CAFFEINE.**—Only retail transactions from secondhands, July delivery 20s., spot 27s. Our last advices from America show a similar retail trade in the article, but at high prices.

**CAMPHOR (CRUDE).**—Dearer. Early in the week 160s. was paid for spot; but since the position has hardened, and the same price has been paid for China for March-May shipment, c.i.f. terms, and very little is now to be had at any price. Telegraphic quotations from Japan name 170s., but they won't offer even at that figure. In the sales 52 packages *China* sold at 155s., and 163 tubs *Japan* at 160s.—all to the syndicate.

**CANNABIS INDICA.**—Forty-one robbins of green to brownish tops were offered and withdrawn, prices asked being 2½d. for the brown and 3d. to 3½d. for the green, whilst a lot of 20 bales very brown and stalky sold at 1d.

**CANTHARIDES.**—Dusty and small *China* held for 1s.; 2s. 6d. is asked for fair *Russian*.

**CARDAMOMS.**—A slightly easier market. For fine bold pale *Ceylon Mysore* character a bid of 2s. 7d. was refused, whilst for the smaller varieties 1s. 2d. to 2s. 2d. was paid; bold brownish *Malabars* sold at 2s. 3d. to 2s. 4d., and good *Seed* at 1s. 10d. to 1s. 11d. Good *Mangalore*s were sold at 2s. 1d. to 2s. 2d. per lb.

**CASCARA SAGRADA.**—Entirely without demand: 70 bales offered, but withdrawn at 18s. per cwt.

**CASCARILLA.**—14 bales fair bright thin bark offered. 10 bales selling at 37s. 6d.

**CASSIA FISTULA.**—32 bags of good pods offered; 15s. was the only bid received for the lot; this was refused, and the parcel was withdrawn at 22s. per cwt.

**CHLORATE OF POTASH** continues firm at 4½d. f.o.b. Liverpool, and 5d. spot.

**CINCHONA.**—The London bark auctions took place on Tuesday, the quantity offered being much higher than at the previous sales. The seven catalogues comprised the following assortment:—

	Packages	Packages
<i>Ceylon cinchona</i> .. ..	238 of which 238 were sold	
<i>East Indian cinchona</i> .. ..	1,207	700
<i>Javan cinchona</i> .. ..	95	95
<i>South American cinchona</i> .. ..	90	90
<i>African cinchona</i> .. ..	281	281
	1,911	1,404

The whole of the bought-in lots belonged to the first catalogue, the broker evidently believing in higher values. The tone throughout was firm, and an advance of about 10 per cent. was established, the unit value being 5d. to 3½d. The next sales will be held on June 25.

**CLOVES**—*Zanzibar* quiet, at steady prices, at 3½d. to 3¾d. The syndicate having taken the article up, we do not imagine prices will be allowed to give way to any great extent, although "ups and downs" may be expected.

**COCA-LEAVES.**—11d. per lb. is asked for fair green *Truxillo*, but there was no inquiry at the auctions.

**COCAINE.**—Contrary to expectation, the price of the *Hydrochlorate* was reduced again yesterday a further 1s. 6d. per oz., quotations being now 16s. 6d. to 16s., according to quantity.

COD-LIVER OIL.—Norwegian continues firm at higher prices, 165s. to 170s. having been paid this week. Newfoundland oil held for 4s. 9d. per gallon.

COLOCYNTH.—No Turkey apples offered. For 7 cases Spanish no orders seem to be in the market, and they were taken out at 1s. to 1s. 2d. per lb. The quantity of colocynth exported from Jaffa in 1894 was only 16,500 lbs., as compared with 42,000 lbs. the year previous, yet the value of the former was 800l., as compared with 950l. for the latter.

CREAM OF TARTAR rather easier, and could be probably obtained at 69s. for crystals, and 71s. for powder.

CUBEBS.—Nothing sold, the whole of the offerings being withdrawn at 45s. to 47s. 6d. per cwt. Amsterdam advises state that no fresh arrivals have taken place for some time, and that the bulk of the stock there is held for higher prices.

CUMIN-SEED.—19 serons Mogador quality held for 28s.

DRAGON'S BLOOD—The now well-known 4 cases of Zanzibar drop bought in at 12s. 6d. Another parcel of 2 cases of dullish lump sold at 6s. 17s. 6d.; good fine bright clean reboiled held for 10l.; slightly seedy ditto, 9s. 10s.

ERGOT OF RYE.—Fair smallish Spanish, slightly touched with weevil, sold, in part, at 8d. Russian is still held for 6d.

FENNEL-SEEDS—20 bags Bombay seeds sold at 21s. per cwt.

GAMBIER quiet, but prices firm; buyers for arrival May-June steamer at 21s. 9d.

GAMBOGE.—Two cases of recy Saigon pipe were offered to-day "without reserve"; low bids were made, but the broker said he had a pocket order of 8s., and withdrew the parcel amidst protests from the room. Ordinary bright qualities were taken out up to 10l. One lot of 4 cases, subsequently increased by "star" lots to 10 cases, sold cheaply at 9s. to 9s. 5s.

GINGER—Steady, but quiet. Spot sales washed rough Cochin, 3s. We do not think we shall see higher rates.

GUAIACUM.—Thirty cases (cases all more or less smelling of paraffin oil) were offered, practically without reserve; 4 cases fine glassy block, with loose tears, sold at 2s. 8d., the lower grades fetching 4d. to 1s.

GUM AMMONIACUM.—Three cases blocky drop sold at 38s., whilst some small clean siftings fetched 40s.

GUM ARABIC.—Good soft sorts fetch 55s., but the market is very quiet with little demand.

GUM ELEMI.—Thirty-five cases sold, fair pale fetching 27s. to 28s., whilst slightly inferior realised 25s.

GUM MASTIC.—Supply fairly heavy with a limited demand only; pale tears quoted 1s. 9d. to 1s. 10d., milky and yellow 1s. 4d. to 1s. 5d.

HONEY.—Jamaica sold well to-day, good to fine pale set, 22s. to 27s., and ordinary dark to fine clear at 19s. to 24s.

IPECACUANHA.—Of Brazilian ipecacuanha about 115 bales were offered at the auctions and met with slow demand, selling at irregular rates, and on the average at slightly lower prices; thin wiry sold at 3s. 7d. to 3s. 10d.; medium qualities, at 3s. 11d. to 4s. 1d.; fair bold, at 4s. 3d. to 4s. 6d. The market for the Cartagena variety is exceedingly firm and but little is left in first hands.

JABORANDI LEAVES.—A better assortment than has been seen for some time was shown to-day, but met with no demand. For one lot of very good pale green a bold bid of 3d. was made; this, however, was declined, 6d. to 9d. probably being the value.

KOLA-NUTS—About 40 packages were offered, one case of fair bold Grenada selling at 1s. 7d. per lb., the bulk, however, was withdrawn at prices from 1s. 3d. to 1s. 6d.

LIQUORICE—The price quoted from Messina for liquorice in rolls is 65s. per cwt., c.i.f.

MENTHOL—Four cases, each six 5-lb. tins, sold "without reserve" at 12s. 9d. to 13s. The demand has been exceedingly limited.

MUSK.—Good pile 1 Tonquin pods, thin-skin blues, are held for 77s. 6d. to 80s., whilst half-trimmed could be got at about 10s. less. Nothing sold at auctions.

MYRRH.—Fair to fine Aden picked gum was taken out at 85s. to 100s. per cwt.; fair sorts, 65s.

NUX VOMICA still continues a flat market, the price of dull quality being 6s. 6d. to 8s. per lb.

OILS (ESSENTIAL).—It is reported from Messina (May 23) that the production of essences in that country is now finished, and that the whole quantity produced this season is estimated to be a little more than half of last year's crop. Some of the manufacturers are waiting for better prices, and nearly all the exporters have small stocks for their summer engagements. Prices are unchanged up to the present, but it is believed an advance will take place when the summer demand sets in. The prices quoted are as follow:—*Oil of lemon*, superior, 3s. 3d.; second quality, 2s. 9d. per lb.; *Oil of bergamot*, 7s. 3d. and 6s. 5d.; *Oil of sweet orange*, 3s. 9d. and 3s. 3d.; *Oil of bitter orange*, 6s. 6d. and 5s. 9d., all c.i.f. London. Of *Cinnamon oil*, 8 cases of low quality, sold without reserve, at 5s. 4d. to 7d. *Eucalyptus oil* entirely without demand, 8d. to 1s. being asked for common qualities, and 2s. for a globulus oil. *Lemon-grass oil* sold at 1s. 5d. to-day.

OPIUM—Rather more doing this week in Druggist's qualities, a fair business passing at 9s. for fine and 8s. for good. Persian, a good quantity sold for China at 12s. 6d. to 13s.

QUICKSILVER.—Messrs. Rothschild have again advanced their price, which is now 7s. 10s., whilst secondhands quote 2s. less. No change yet made in Mercurials.

QUININE.—Quiet, but firm; 12s. 6d. nearest price for best German brands in bulk. A sale of 5,000 oz. October delivery is reported at 1s. 1s. 4d.

RHUBARB.—Some 111 cases were offered in the auctions, but only 10 sold, good medium high-dried realising 10d. per lb.; fair Shensi pickings 10s. 2d.

SARSAPARILLA—Jamaica was in good demand, sound and first class damaged selling at 1s. 4d. with good competition; native red Jamaica sold at 8d. per lb. Lima sold at 10d. to 10s. 4d.

SENEGA ROOT.—Good root is held for 1s. 5d., but a parcel of 11 bales dark chumpy sold at 1s. 3d. at the auctions.

SHELLAC—In good demand, at full prices; 12s. paid in sale for TN, and at the close August delivery is quoted at 13s.

SULPHUR.—Refined sulphur in Roll, for barrels of 3 cwt. each, is quoted from Messina at 4s. 3s. 6d. per cwt., c.i.f.

TEA.—The market keeps very firm for Ceylons and Indians under 10d., and in spite of the near approach of the holidays a fair trade is being done in the country in these grades, Ceylons selling readily at 1s. 6d. per lb. better value than Assams. On Tuesday good hard liquoring Ceylon Pekoe Souchongs sold at 6s. 4d. to 7d., while on Monday it was most difficult to get Assams worth buying under 7s. 4d. to 7s. 6d. Ceylon Broken Pekoes about 8d. to 9d. were cheap this week, teas with good liquor and really handsome leaf selling at this range. New season's Newmakes are coming in freely and selling at low prices, but so far they are undesirable in liquor. New Monings will not be here before the end of June.

TURMERIC.—In fair demand, at steady prices. At auction fair bright Cochin finger sold at 9s. 6d.; Madras dull finger sold at 9s. 9d. to 10s.; Bengal, to arrive, 9s. 6d.; spot, 11s.

TURPENTINE higher at 22s. 9d. for spot.

VANILLA.—The finer qualities sold well at full to dearer prices to-day.

WAX (BEES').—Jamaica wax sold well at 8s. 7s. 6d. at to-day's auctions; greyish to fine sold at 8s. 5s. to 8s. 10s. Spanish at 8s.; Madagascar at 7s., "subject to approval"; and for one case of Australian wax 7s. 7s. 6d. was paid.

WAX (JAPAN).—Very dull fair selling at 26s. per cwt. at to-day's sales.



### Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

### The Chemists' Co-operative Society (Limited).

SIR.—I should like to announce through your columns that I have withdrawn from the sale of my business to the "Chemists' Co-operative Society (Limited)," and may add that I have no cause to regret the disconnection.

Yours truly,

315 Edgware Road, W.,

FRANK W. BENNETT.

May 29.

### Beetham & Son v. The County Co-operative Drug Company.

SIR.—I do not think Messrs. Beetham & Son's patent-agent and solicitor state the case fairly when they say they "voluntarily and of their own free choice abandoned their former trade-mark by consent in open court," for this was not done until we served them with notice of motion to compel them to take their trade-mark off the register, and, rather than fight such a weak case, they retired as gracefully as possible and paid the costs. By inserting this in your next issue you will greatly oblige.

Yours very truly,

389 High Street, Cheltenham.

J. STEWART.

### The Pharmaceutical Smith.

SIR.—In your article on the movement in the grocery trade you ask, "Where is the pharmaceutical Smith?" As I happen to know the gentleman of whom you write, and also know that his organising power has been evidenced in many trades besides his own, I feel inclined to ask, "Why cannot he be approached?" I cannot say how far he is able or willing to take up our trade; but one thing is certain, the longer we wait the less likely we are to secure his services. We want a movement of the kind in our trade as badly as any other trade. Are there none amongst us who can put a matter like this in hand in the hope of improving our position?

Yours truly,

F. H. PROSSER.

### Mellin's Minimum Prices.

SIR.—We notice a letter in your issue of May 25 from a "Country Chemist," asking how he is to compete with London stores who have goods delivered by own van, empties cleared away, and yet retain his 10 per cent. He can do all this by buying his Mellin's food from May, Roberts & Co., with 5*l.* worth of druggists' sundries, and have the goods carriage paid to his door.

Kindly insert this letter in your next issue. It may relieve our friend in the country.

Yours faithfully,

9 Clerkenwell Road,  
May 24.

MAY, ROBERTS & CO.

### Pill-boxes and Optics.

SIR.—Wishing to demonstrate the interesting fact that images of surrounding objects formed on the retina are in an inverted condition, the following simple experiment occurred to me, the apparatus for which will, I venture to think, be found in the humblest pharmacy:

Taking a drachm pill-box, remove the lid and with a pin

prick a hole through the bottom. On viewing through this tiny hole, excepting for the limited field, all appears as usual. Now to show that the images here are really inverted.

Take a small piece of white tissue paper such as used for wrapping jewellery, and also found folded with oiled silk, and to render more transparent make a grease-spot with a drop of paraffin or any other oil. Stretch this over the pill-box in the place of the lid, using the former lid, which should have the top taken out, to keep it on tightly in drum-like fashion. The lid should only be placed half on. Now fit into the socket thus formed an empty  $\frac{1}{2}$ -oz. cardboard syringe-case, removing the lid and bottom of same. The shoulder of the syringe-case will be found to just fit into the lid of pill-box, and the whole will form one tube.

On now looking through the open end of the syringe-case, with the pill-box end towards the light, small distinct images will be seen, true to colour but inverted. Thus by allowing the image to form on the paper instead of on the retina direct, the fact of the inversion becomes apparent to all.

Yours truly,  
H. R. BECKETT.

Tonbridge, May 27.

### Ointments.

SIR.—Referring to Gerrard on ointments in last issue, the addition of yellow wax to benzoated lard to form a hard ointment-base is a good idea. It can be also strongly recommended as an addition to vaseline, forming what is known to some as vaseline ointment. C. B. D. (58/43)

### Nothing but Majors Needed.

SIR.—A great deal has at different times been said by the Pharmaceutical Society respecting the difficulty of getting all men who pass the Minor to subscribe to the Society, and also of drawing together into a united body all chemists in business, whether Major or Minor men. One great cause of this want of interest in the Society is shown by a remark I have often heard—namely, "What has the Society or the Council done for us?" Thereby is, "Nothing, except just a legal right to sell poisons and put us on the register." There is so much the Society cannot do. It cannot keep up the prices, or keep out the grocer or the store, or prevent the unqualified man keeping everything but a few poisons, or give the chemist a monopoly; but there is one thing it might do, and that is—let the Minor examination give the title of pharmaceutical chemist, and let all associates in business at the present time take that title also, and the Major get that of Fellow of the Society, either instead of, or in addition to, pharmaceutical chemist. Half-a-century experience has fully proved that the Minor is quite sufficient for any man so far as business requirements are concerned and the safety of the public, which does not know the difference between "A.P.S." and "M.P.S." and would much rather pay the grocer 10*d.* than 1*s.* to the qualified chemist. The number of associates in business now far outnumbers the members, and yet all, or nearly all, of the Council are pharmaceutical chemists. Consequently, the minority has to legislate for the majority. The proposed alteration would at once remove this state of things, which is to some a grievance. Two qualifications are certainly not necessary for the title "pharmaceutical chemist," nor for public safety, and I believe that doing away with the intermediate associate is about the only thing the Society can do to make it a thoroughly united body. All would be pharmaceutical chemists, and have an equal interest in the Society, and be equally eligible for the Council; but there should be this one condition—the title of "pharmaceutical chemist" should be held only so long as the subscription was regularly paid.

AN OLD CHEMIST. (55/24)

### The Pharmaceutical and Medical Examinations.

SIR.—In looking over some old C. & D.'s, which I always find a most interesting occupation, I have come across the enclosed paragraph, and think the remarks apply now fully as much as they did in 1889, and that the Pharmaceutical Society ought to endeavour to get the Minor certificate recognised *pro tanto* for the medical licence examinations. It is scarcely just that Minor men desiring to go for the

Medical should have to be re-examined in subjects in which they have already passed a stiffer examination than most medicals. I enclose my card, and am

Yours,  
SOUTHPORT. (47/48.)

[The letter referred to was one written by Mr. J. Barker Smith, L.R.C.P., of Dulwich, urging that the pharmaceutical examinations (in chemistry, *materia medica*, and pharmacy) should be accepted so far as they go in the medical examinations. We should add that the chemistry lectures of some pharmaceutical schools are recognised by the London joint board, and the Minor certificate suffices to excuse the medical student from attending a practical pharmacy course. This is as far as medical examining boards can be expected to go. As the Minor certificate is *sine curriculo* it cannot conform with the General Medical Council's regulations.—ED.]

## **Edinburgh and London Examinations.**

SIR.—Accept my thanks for your answer and that of Mr Robertson to my query. I cannot, however, agree with them, because I understand a large number of the Edinburgh passes come from England. In fact, one English school had eleven passes in Edinburgh and one in London at the last examination. I do not think for a moment the examination in Edinburgh is easier, but that the methods are different.

Yours obediently,  
ANXIOUS. (49/47.)

[We notice that twenty-three out of fifty-two Minor passes in Edinburgh in April were English candidates. If we could get the proportions of failures amongst the Englishmen and Scotchmen examined the figures might satisfy "Anxious." North of England candidates have always preferred Edinburgh as an examination centre. Will some of them tell us plainly why?—ED.]

## **LEGAL QUERIES.**

*Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY.*

51/40. Dispenser asks:—Must we attach a stamp to 1 oz. of Fellows' syrup, as in the following prescription?—

Acid. hydrocyan. dil.	..	..	..	..	M <sup>xx</sup>
Liq. Fowleri	..	..	..	..	5ss.
Syr. flor. arrant.	..	..	..	..	5iv.
Sp. chlorof.	..	..	..	..	5ij.
Aq. dest. ad	..	..	..	..	5vij.

Sig.: 3j. ter in die post cibos c. 5j. syrupus hypophos. co. (Fellows).

[Yes. If the syrup is sold without admixture it must be stamped.]

54/13. *HCl* writes:—"An aerated-water company was delivering siphons here. In doing so the servant cracked a hydrochloric-acid Winchester, with the result that next time I took hold of it I had the contents over me, ruining a suit of clothes, and causing other damage to the extent altogether of about 5 $\ell$ . Who is responsible?" [The company is liable for the negligence of its servant, but of course negligence on his part will have to be proved. This liability would only extend primarily to the damage to the Winchester quart and its contents. It was not a necessary consequence of such negligence that our correspondent should empty the Winchester over himself. If he knew it was cracked, the Court would no doubt hold that there had been contributory negligence on his part, and that our correspondent might have avoided the injury to himself by ordinary prudence; in which case he would not be able to exchange his old suit for a new one at the company's expense. The rule as to contributory negligence is that if by the exercise of ordinary care and diligence the mischief might have been avoided, the negligence of the defendant is no ground of action.]

57/36. *E. S. H.*—You may bottle herzene yourself, and you may sell it out by the pennyworth. But unless you have a petroleum-licence you must not have more than 3 gallons in stock at one time, and this must all be kept in securely-stoppered bottles, none of which contains more than 1 pint.

## MISCELLANEOUS INQUIRIES.

*Back numbers containing formulae educational or other specific information can be obtained from the Publisher.*

**N.B.—**We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

44/3. *Hygiene*.—Particulars of the Examinations of the Sanitary Institute can be obtained from the Secretary of the Institute, 74A Margaret Street, London, W.

44/20. *Varnish*.—Label-varnish.—See 1894 DIARY,  
page 369.

44/22. Dispenser.—Liq. Hydrarg. Perchlor. for Hospitals.—The water-supply of South London makes a better solution without ammonium chloride than with it; in fact, in the latter case, a large proportion of the mercury is precipitated. Make a solution of 1 gr. to the drachm with 1 minim of dilute hydrochloric acid, and dilute as required with hoiled tap-water.

44/1. *Menthol*.—Dry Shampoo, as used by hairdressers, is any strong spirituous hair-wash. The following will serve the purpose:—

Spt. ammon. arom.	..	..	..	..	..	3ss.
Otto rosé..	..	..	..	..	..	11v.
Aq. lavand.	..	..	..	..	..	3j.
Spt. myrciae ad	..	..	..	..	..	3vj.

44/38. *Herbal*.—A patent process has recently been introduced from the United States for making dry Boiled Sweets with a large proportion of glucose. We presume that yours is a sample of such goods. This hint may enable you to find out what you want.

45/48. *Theresa*.—(1) We presume that by sulpho-pyro-gallol developer you mean one made with a sodium sulphite. See the "Ilford Manual." (2) Consult the index.

46/38. *W. H. S.*—(1) There is no thoroughly efficacious external application for toothache except something hot, such as a poultice. (2) *Ginger-beer*.—See *C. & D.*, this volume, page 111. Try Breffits for the bottles, or see "Buyers' Guide" in the *DIARY*.

46/58. *W. F. G.*—Stiff-muscle Ointment:—

Ol. cajuputi	..	..	..	..	..	..	5fl.
Camphor...	..	..	..	..	..	..	5fl.
Ol. terebinth.	..	..	..	..	..	..	3ss.
Liq. ammoniac fort.	..	..	..	..	..	..	3ss.
Ung. residue	..	..	..	..	..	..	5fl.
Vaselin.	..	..	..	..	..	..	5fl.

Dissolve the camphor in the two oils, and add the ammonia. Rub up the resin-ointment and vaseline in a warm mortar, and work in the oil mixture.

55/4. *Ants*—We do not suppose it is possible to clear South African houses of White Ants. They are as numerous as the locusts of Egypt, and in places where they are most abundant, and where teak floors are not, it is customary to cow-dung the floors. This process we need not explain. Paraffin and turpentine are the only chemical remedies we can suggest; but this paragraph may bring a few postcards from South African chemists.

47/52. *Phenacetin.*—(1) Blancmange-powder.—Oswego cornflour flavoured with ratifica. (2) Custard-powder.—The same, coloured with saffron. Riceflour is used by some, and the flavouring may be varied, but saffron is the correct colour. Tragacanth must not be used.

47/34. *Subscriber.*—To Kill Warble-worm in cattle any of the following may be used, as is found most convenient:—Ung. Hydrarg. Fort.: Rub smartly over the spot, and if there is an opening plug it with the ointment. Tinct. Iodi 1-8: Inject under the skin over the spot with a hypodermic syringe. Crude Carbolic Acid: Touch the spot, and run into the opening a few drops, and afterwards dress with 1-10 in oil. As a preventive, smear along the back and sides, early in summer, the following mixture, and repeat occasionally during the hot season:—

Ol. lini ..	..	..	..	..	..	ʒiiiss.
„ terebinth. ..	..	..	..	..	..	ʒiiiss.
Tinct. asafoetidae ..	..	..	..	..	..	ʒj.

58/69. *A Sufferer (Irish Grievance).*—We cannot make out whether your letter is anonymous or not. If you give us your name at the end, it is quite illegible.

57/55. *Cork.*—The plant from Mitchelstown is the lesser spearwort (*Ranunculus Flammula*), a plant common in wet places throughout Britain. The old writers attributed to it emetic properties, and Withering says of it: "Some years ago a man travelled in several parts of England administering vomits which, like white vitriol, operated the instant they were swallowed. The distilled water of this plant was his medicine, and from the experience I have had of it I feel myself authorised to assert that in the case of poison being swallowed, or other circumstances occurring in which it is desirable to make a patient vomit instantaneously, it is preferable to any other medicine yet known, and does not excite those painful contractions in the upper part of the stomach which the white vitriol sometimes does."

58/66. *Hants.*—If we understand you correctly, the balance-sheet of your branch would stand thus:—

Cr.	£	Dr.	£
Stock ..	..	..	256
Fixtures ..	..	..	50
Book-debts ..	..	..	10
Cash in bank ..	..	..	50
Balance (loss) ..	..	..	34
Capital ..	..	..	..
	500		

We presume you mean by the deficit being 350*l.* at the bank that this is what has gone from the 500*l.* The stock should be the actual present value.

45/24. *Iridis.*—(1) Tell us what there is in the black hair-dye. (2) Brown Hair-dye:—

Pyrogallic acid ..	..	..	..	..	..	ʒj.
Citric acid ..	..	..	..	..	..	gr. x.
Glycerine ..	..	..	..	..	..	ʒss.
Rose-water ..	..	..	..	..	..	ʒiv.

Mix and dissolve.

45/10. *Staff.*—(1) We do not understand your question Whose typewriter is it? (2) Copying-pad—See *C. & D.* November 17, 1894, page 711.

44/67. *Lupulus.*—See reply to "T. M.", page 752.

44/55. *G. B.*—To Bleach Anatomical Bones they should be well boiled in water containing washing-soda, then immersed in fresh milk of lime for a day or two. If, after washing and drying in the sun, the bones are not white, or appear to be greasy, repeat the boiling and lime-treatment. It often happens that this treatment has to be repeated day by day for a week or two. A cream of chlorinated lime is a useful bleach, but it has only a superficial action upon greasy bones, and is apt to make them porous.

44/62. *Fungus.*—We cannot give a remedy for white spots on green-cloth blinds without knowing what the dye is. We have no personal experience of the matter.

54/74. *Borax.*—Mr. Grierson's "Lessons from Fields and Lanes" (Bleasdale, Limited, 1*s.*) will suit your purpose.

54/63. *G. G.*—We do not think it is wise for you to undertake the treatment of a long-standing complaint. Solution of nitrate of silver, 10 gr. to the pint, and gradually increased in strength, is used in London hospitals, but the general strict hygienic conditions of hospital treatment have much to do with the cure.

54/53. *M. Smith.*—The sulphides of the heavy earths when prepared in a certain way, are luminous. The ash of oyster-shells has this property, and Balmain's Luminous Paint takes advantage of it. See *C. & D.*, November 4, 1893, page 679.

54/52. *A. T. D.*—(1) The mixture will keep good for years. (2) We think it is possible that the phosphoric acid in the following mixture may be the cause of your customer's sore throat. When there are any symptoms of that nature coming on the mixture should be dropped, and one containing acid. nitro-mur. dil. ʒj. in place of the phosphoric acid substituted. Both are excellent Tonics:—

Acid. phosph. dil.	..	..	..	..	..	ʒj.
Sp. chloroform.	..	..	..	..	..	ʒj.
Tr. gent. co.	..	..	..	..	..	ʒiv.
Glycerini ad	..	..	..	..	..	ʒxij.

M.

ʒij. t.d.s. ex aq.

54/35. *Statim.*—*Depilatory.*—See 1894 DIARY, page 361.

55/8. *Jacobus*—(1) *Marking-ink*—See 1894 DIARY, page 368, and *C. & D.*, August 11, 1894, page 273 (2) *Eau-de-Cologne*.—See *C. & D.*, July 28, 1894, page 166.

55/50. *Twenty Years' Subscriber.*—The Value of Gray's "Supplement" is as much as you can get for it. We have been offered copies for 30*s.*, have seen it sold for 7*s.*, and have known people pay three guineas for it. Mohr and Redwood's "Pharmacy" is less often asked for, but it is worth 15*s.* The value placed upon these books is entirely fanciful, and is due to the old-time flavour of excellence which still hangs round them. Pereira's "Materia Medica" is another book which people sometimes pay a big price for. We picked up a copy recently for 1*s. 6d.* (three volumes), and have the hope of getting a Gray some time for a few shillings.

56/10. *Devon.*—Nitre and sulphur may be used in place of gunpowder in a footrot-paste without detracting from its utility.

57/28. *J. S. D. (N.Z.).*—We are glad to learn that you find the *C. & D.* so useful in your Antipodean business. (1) Walnut-stains can be removed from the skin by the application of a weak solution of chlorinated lime, a teaspoonful to the pint, followed by a weak acid (vinegar) and plain water. (2) Moths.—The destruction of cloth is caused by the insect when hatched eating its way out. The best plan, therefore, is to attack the eggs, and this is done most effectually by benzine spray. Towards the end of the moth season your draper customer should examine all his cloth, and wherever there is an indication of an ova deposit he should spray it with benzine and brush the cloth. It may, of course, suffice to spray the exposed parts only. Benzine dissolves the waxy covering of the ova and destroys their vitality.

58/24. *H. S.*—Rice-flour.

58/53. *A. S. (N.S.W.)*—We are much obliged for your reply. You will have noticed that we have already published the information.

58/15. *J. F. D.*—The simplest way to soften water for laundry-purposes is to use cloudy ammonia or the oleate of ammonia described on page 695. For other household purposes—such as bedroom ewers—use water-softening powder. See *C. & D. DIARY* 1894, page 333.

57/31. *Botanist.*—The *Primula obconica* is well known to produce most irritating eruptions, which sometimes amount almost to blood-poisoning. It does not affect everyone in the same way. If you refer to a file of the *British Medical Journal* for the past three years, you will find some notes by doctors about the matter.

56/44. *J. H. Morris.*—We do not think that luteol is yet a commercial product. The note which we printed was an abstract of a paper by the chemist who synthesised it.

55/39. *A. N.*—We have no further information regarding anytin than is contained in the *DIARY*.

53/72. *J. G. Owen.*—(1) The addition of 5 gr. of permanganate of potash to ordinary effervescing saline will give you a bath salt. (2) *The Lancet.*

58/74. *E. J.*—We thought every pharmacist knew that Ung. Aq. Rosæ is cold-cream. See Mr. Gerrard's paper on "Ointments."

60/30. *Stoke.*—We have found the anti-batation fluid most satisfactory; 50 gr. of the dyes, not 1 gr., is meant.

## INFORMATION WANTED.

*The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—*

54/45. *Ridemacher's preparation of copper:* where obtainable?

53/52. *Papier Joseph:* where obtainable?

## Next Week.

Tuesday, June 4.

*Royal Institution of Great Britain.* At 3 P.M. Professor E. Ray Lankester on "Thirty Years' Progress in Biological Science."

Thursday, June 6.

*Royal Institution of Great Britain.* At 3 P.M. William Huggins, Esq., on "The Instruments and Methods of Spectroscopic Astronomy."

*Chemical Society,* Burlington House, W., at 8 P.M. Papers to be read: "On the Molecular Refractions of Dissolved Salts and Acids," by Dr. Gladstone, F.R.S., and W. Hibbert. "A Comparison of some Properties of Acetic Acid and its Chloro and Bromo Derivatives," by Spencer Pickering, F.R.S. "Beta Beta-Dinaphthyl and its Quinones," by F. D. Chattaway, D.Sc., Ph.D.

Friday, June 7.

*Royal Institution of Great Britain.* At 9 P.M. Professor Alfred Cornu, on "Phénomènes Physiques des Hautes Régions de l'Atmosphère."

## Trade-Marks Applied for.

**A**NY person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reider Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(From the "Trade Marks Journal," May 22, 1895.)

Portrait of a young lady; for disinfectant preparations, in fluid, powders, soaps, &c. By Adams' Manure and Chemical Company (Limited), 116 Fenchurch Street, E.C. 186,388.

"STRABONITE"; a preparation of hitumen, to keep insects from the roots of plants. By A. Wigge, Weser House, Hameln, Germany. 186,634.

"ARCHER'S WOUND LOTION," and facsimile signature; for a veterinary preparation. By Archer & Co., 7 Lovaine Terrace, Newcastle-on-Tyne. The essential particular is the signature. 187,173.

"KEORA"; for preparations for the skin, hair, and teeth, and perfumed soap. By J. S. Collins, 82 High Street, Galashiels. 186,600.

"WALKER'S METAL POLISH," and facsimile signature; for metal-polish. By W. & F. Walker, 22 Irwell Chambers, Fazakerley Street, Liverpool. The essential particular is the signature. 187,103.

(From the "Trade Marks Journal," May 29, 1895.)

"SELVYT"; for chemical substances used in manufactures, photography, &c., and also in medicine and pharmacy and for surgical and curative appliances. By Jones Brothers & Co., 12 York Street, Manchester. 186,770, 186,772, 186,774.

"TROPELS"; for medicated lozenges for human use. By Wyleys (Limited), 6 Wheatley Street, Coventry. 186,013.

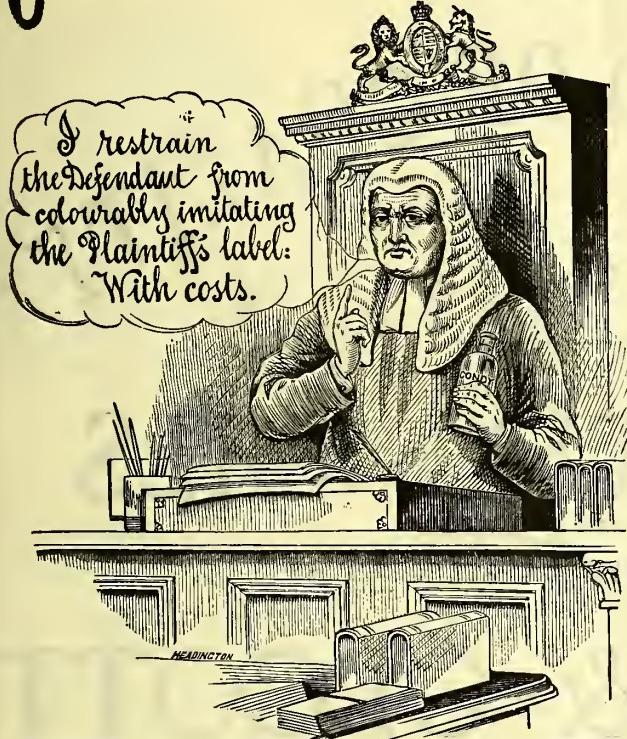
Two crossed clubs of fantastical shape within design; for linseed specially prepared for making poultices. By Chamberlain, Pole & Co., 6 and 7 Broadmead, and Union Street, Bristol. 186,305.

"SEAWAX," and device of sea-dragon; for a medicine for human use. The essential particular is the device. By J. L. Tilton, 100 Columbia Heights, Brooklyn, U.S.A. 187,285.

"PEGAMOID"; for abdominal supporters, nipple-shields, pessaries, trusses, &c. By the Publishing, Advertising, and Trading Syndicate (Limited), 40 King Street, Cheapside, E.C.

We are hardly inclined to hold Dr. Wynn Westcott, the Coroner, responsible for the remarks which an *Echo* interviewer puts in his mouth. The interviewer selected him as a coroner who has "more than once spoken in very decided terms at inquests about the injury done by chemists playing the part of amateur medical men." The same might be said of almost any other medical coroner. When asked what is the particular harm done, Dr. Westcott is reported to have replied by quoting a particularly foolish and a not very polite sneer which he had himself once made to a father who said in evidence that he had taken his deceased child to a chemist. "It would have been better for you to go to a butcher," he said, "for the butcher would be more likely to know where the organs of the human body are by his experience in cutting up animals." We do not say Dr. Wynn Westcott actually made this observation; we only say that the *Echo* man attributes it to him. Before making any comment on it we would like to give Dr. Westcott the opportunity of saying whether the statement is true, and, if so, whether, in the case he was investigating, there were any special circumstances which justified the advice. The interview referred to is published in the *Echo* of May 23.

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1 cwt... .. 1/6 "

#### 2nd Quality.

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In 4½ or 7 lbs. at 1/3 lb., less 10%.  
Per cwt. in " at 1/4 lb., 5%  
" 2 " at -1/1 lb. net.  
Special line, 28 lbs.  
(tin included) .. 31/- net.  
6 oz. flat, plain label (capsuled)  
per doz. 4/-; per gross 46/- "  
1 lb. round doz. 4/6; " 52/- "  
2 lb. " 8/-; " 90/- "  
1 lb. " " 1b/-; " 165/- "

### SALINES.

The very greatest care is taken in the manufacture to ensure their keeping well. They have given complete satisfaction to our customers, as evidenced by our largely increasing sale.

Saline, powder or granular, in 4½ lbs. or 7 lbs. at 1/3 per lb., less 10 per cent.  
Ditto, per cwt. .. at 1/-, less 5%  
Special line, 28 lbs.  
(tin included) .. 31/- net.  
In 8-oz. Capsuled Bottles  
(Wood's quinine tint),  
labelled or plain, per  
doz. .. 8/6 ..  
In 8-oz. ditto, per 6 doz. 8/- ..  
" " per gross 90/- ..  
" " per 3 grs. 84/- ..  
In 8-oz. " per dozen 7/- ..  
" " per gross 78/- ..  
" " per 3 grs. 72/- ..

### SEIDLITZ POWDERS.

These powders are accurately weighed, B.P. strength, made with Howard's Soda Tart. and the finest English Acid, free from lead by B.P. test. In one gross boxes.

Per box net.  
50 ross in 50 boxes .. .. at 4/-  
2 " 20 " .. .. 4/3  
1 " 10 " .. .. 4/6  
1 " 1 " .. .. 5/-  
In one dozen boxes (bronze blue),  
unlabelled and unwrapped, at 6d.  
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Labelling and Wrapping extra.  
In cheaper boxes, 2d. per dozen  
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The same quantities in half-dozen  
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For extra strong powders add 1/- a  
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HIGHEST AWARD, CHICAGO, 1893.

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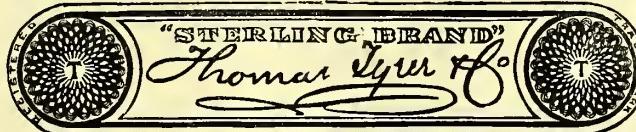
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Bots. included	1/-	¼ lb.	½ lb.	1 lb.			
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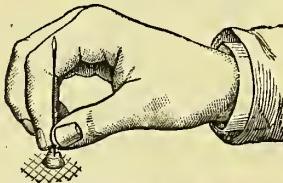
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42

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In 1d., 2d., and 3d. tins.  
Also in 1, 2, 3, and 7 lb.  
Tins and Casks, for large consumers and the trade.

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## WHITE CEMENT

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Requires no preparation, and is easy and clean in application.

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FACEACHE  
NEURALGIA  
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NERVE PAINS

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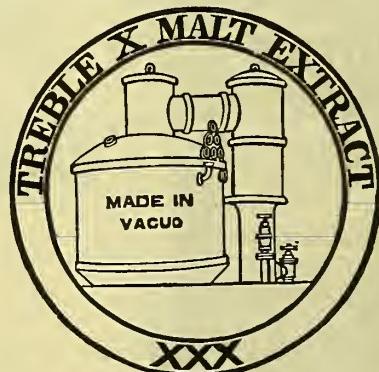
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It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

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To Chemists and Druggists,

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It having been brought to our knowledge that certain Chemists in the United Kingdom are selling as Bromidia a substance not manufactured by Messrs. Battle & Co., We Hereby Give Notice that legal proceedings will be instituted to restrain any persons from selling under the title or name of Bromidia, or any name which will be liable to be mistaken for the same, any substance not of the manufacture of Messrs. Battle & Co.

We are the Sole Wholesale English Agents for this preparation.

Yours faithfully,

ROBERTS & CO.,

76 New Bond St.,

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16th June, 1894.

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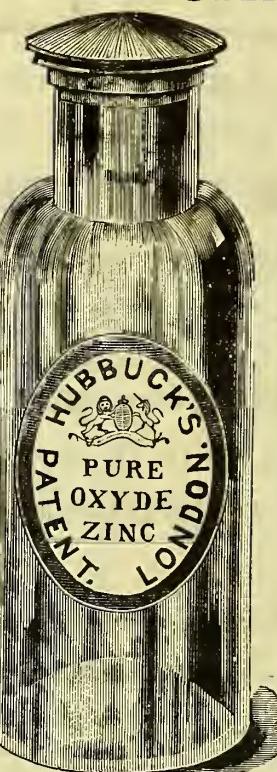
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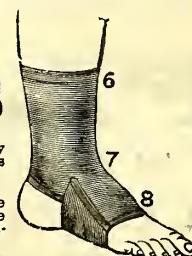
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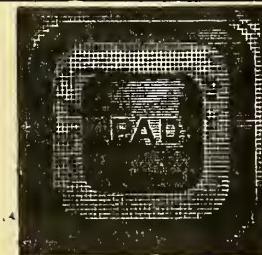
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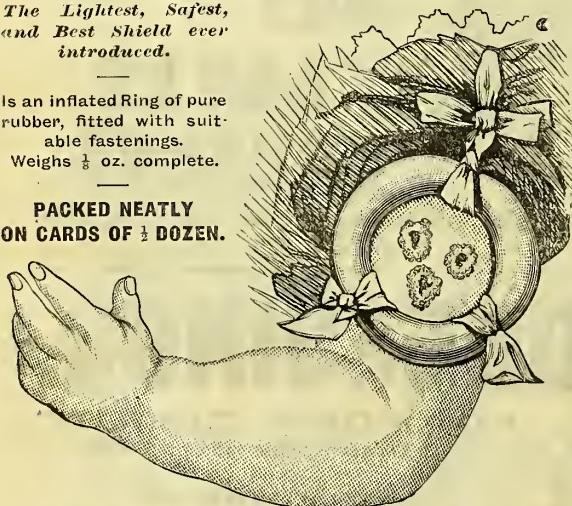
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7/- gross.

**CACHOUS.**—Beautiful Pocket Tin, filled .. .. 7/- per gross.

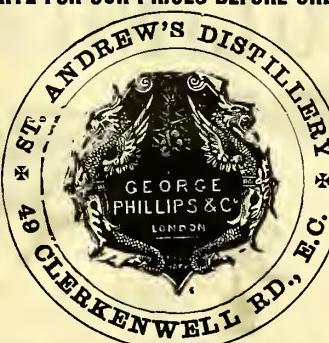
No. 356.—**New Feather Monster Salt Bottles**, Assorted Colours.  
Empty, 2/9 dozen. Filled, 3/6 dozen.

No. 357.—**Wide-Mouth, Flat-Headed, Clear Smelling Jar**,  
Suitable for Ammonia Balls and Coloured Liquid, 4/- dozen.

**SPECIMEN STAND**, Tube Shape, Conical Glass Stopper  
7/- dozen. Never such Value Known !

**Large Buyers.**—Write to SHIRLEYS' before ordering  
a quantity of anything. You will save money by  
doing so.

**SHIRLEY BROS., 105-7 WHITECROSS ST., E.C.**



**S V M** 0 61 0 64  
**AT LOWEST PRICES.**

Special Terms to Large Buyers.

**PURE GINGER WINE.**



**BUY THE BEST  
OIL  
PUMP**  
AND SAVE  
**OIL, TIME, MONEY.**  
THOUSANDS IN USE.

**FIG. 2** We have bought the Stock of these Pumps from  
**MESSRS. PONTIFEX & WOOD,**  
**SHOE LANE, LONDON,**  
Who have given up this part of their business  
and it is our intention to continue same.  
We hold a Good Stock, and can give  
Prompt Delivery.

Write for full particulars and prices of The "Farringdon" Patent Oil Pumps to

**W. H. WILLCOX & CO.**  
34 & 36 Southwark Street,  
LONDON, S.E.



**GARDNER'S PATENT  
"RAPID" SIFTERS & MIXERS**

Are now working in  
Almost Every Trade  
where DRY POWDERS  
are Sifted and Mixed  
and Lumps Reduced, all  
being done at one  
operation.

For HAND or POWER  
Prices from 48/-  
to £90.

CATALOGUES FREE.

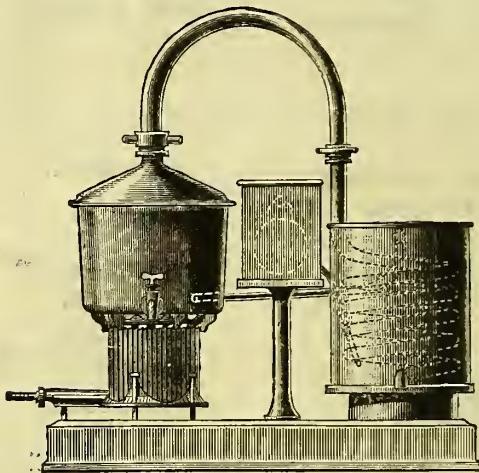
WM. GARDNER, Engineering Works, GLOUCESTER.

**BENNETT, SONS & SHEARS, LTD.**

ENGINEERS AND COPPERSMITHS,

167 KINGSLAND ROAD, LONDON, N.E.

SPECIALITY—LABORATORY PLANT.



**THE "AUTO"-STILL.**

Prices on Application.

**DISPENSING BOTTLES.**

**THE NORTH LONDON GLASS BOTTLE COMPANY**

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction  
in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain  
or graduated—

3 & 4 oz. ..	7/6 per gross.	10 & 12 oz. ..	12/- per gross.
--------------	----------------	----------------	-----------------

6 " 8 "	8/6 "	16 "	16/- "
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WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz. ..	3/6 per gross.	1½ oz. ..	4/6 per gross.
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1 " ..	3/9 "	2 " ..	5/- "
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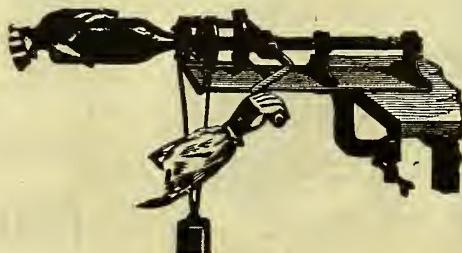
**PLEASE NOTE.**

Six gross and upwards, assorted or otherwise, are carriage paid  
to any address in England; smaller quantities not carriage paid

I. ISAACS & CO., Glass Bottle Manufacturers,  
106 MIDLAND ROAD, ST. PANCRAS, LONDON.

Established 50 years. Bankers—London and Westminster Bank.

# NEW CAPSULING MACHINE



The only Machine  
which leaves no crease  
or pleat on the  
Capsule.

Can be fixed to any  
Counter.  
A single pull of the lever  
is sufficient  
to fix the Capsule.

Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.

# TIDMAN'S FEEDING 1/- BOTTLE IS STILL THE BEST.

We are now fitting this Feeding Bottle with the

## PATENT SELF-CLEANSING TEAT.

Each Bottle is packed in a Handsome Box with Tube and Bottle-brush, Spare Glass Tube, and an extra Self-cleansing Teat.

**PRICE 6/- DOZEN.**

*Chemists will find it pays them to Stock these Feeders.*

**ENGLISH GLASS. ENGLISH RUBBER. ENGLISH LABOUR.**

**TIDMAN & SON, LIMITED, BUSHELL STREET, LONDON, E.**

Telegraphic Address—"BLUEBERRY LONDON."

Telephone No. 11,392.

## R. H. BARRETT'S PATENT CAPPED BOTTLE

THE ONLY REALLY PERFECT BOTTLE FOR VASELINE, POMADES,  
DRY POWDERS, ETC.

### NOTICE REDUCTION IN PRICES.

PRICES (in 5-gross Lots):—Fitted with STRONG METAL CAPS, CORK-LINED, in various colours, very attractive in appearance—1 oz., 10/6; 1½ oz., 11/-; 2 oz., 11/6; 3 oz., 13/6; 4 oz., 15/6 per gross. TALL SERIES.

CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

**R. H. BARRETT,**  
FLINT GLASS BOTTLE WORKS,  
THE OVAL, CAMBRIDGE HEATH, LONDON, E.  
Telegraphic Address—"FOREFRONT LONDON."



## THE "STIPENDUM" STOPPER CO., LTD.

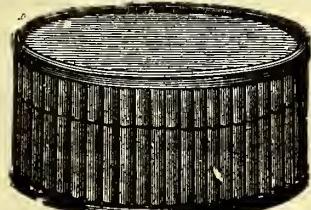
47 LAMB'S CONDUIT ST., LONDON, W.C.,

MANUFACTURE THE FOLLOWING SPECIALITIES—

"STIPENDUM" CORK STOPPERS, in all sizes.

"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.

"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles.



## "STIPENDUM" GREASE-PROOF COVERED POTS.

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable and the only articles really answering the purpose intended  
To be had of all Druggists' Sundriesmen.

Wholesale only of the Company.

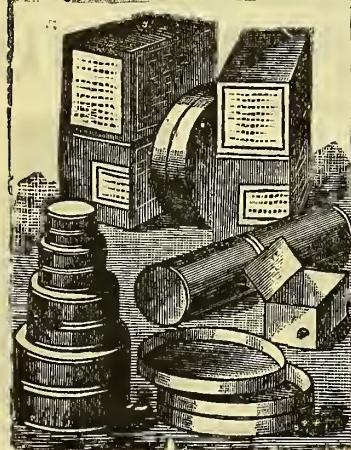
# T. REMUS'S ROUND CARDBOARD BOXES

(WITH ORNAMENTAL RIVETS).

No.	Diameter in Inches.	Depth in Inches.	A Plain.	B Shoulder and Lid of Box Coloured.	
5	2	1	Per gross. 7/9	Per gross. 8/6	Dies for embossing are charged extra, from 10s. to £2 10s., according to design; but if 25 gross are ordered, the die is not charged.
6	2 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>16</sub>	9/6	10/3	
8	3 <sup>1</sup> / <sub>2</sub>	1 <sup>9</sup> / <sub>16</sub>	14/3	15/3	
10	3 <sup>1</sup> / <sub>2</sub>	1 <sup>11</sup> / <sub>32</sub>	19/-	20/3	
12	4 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>32</sub>	25/-	27/-	
14	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>16</sub>	33/-	35/-	
16	6 <sup>5</sup> / <sub>16</sub>	3 <sup>5</sup> / <sub>32</sub>	47/3	50/-	10 % discount allowed on 12 gross and upwards.
18	7 <sup>1</sup> / <sub>16</sub>	3 <sup>37</sup> / <sub>32</sub>	65/3	69/-	

**LIDS MAY BE EMBOSSED, LABELLED, OR GOLD BLOCKED.***The charge for embossing top of lid is as follows:—*

No. 5 to 10	...	...	...	1/6 per gross	} extra.
No. 11 to 16	...	...	...	2/6 "	
No. 17 & 18	...	...	...	3/- "	

**WRITE FOR SAMPLES AND FURTHER PARTICULARS.**

## AUSTIN & CO.

Patentees and Manufacturers of FANCY CARD  
**ROUND, OVAL, AND SQUARE SHAPED BOXES**  
FOR POSTAL AND GENERAL PURPOSES.

ALSO PATENT BARREL PACKAGES WITH METAL ENDS, FOR DRY GOODS,  
AND  
Makers of best class of Violet Powder Boxes, and high-class goods of  
every description for Perfumery, &c.

**8 GREVILLE ST., HATTON GARDEN, LONDON, E.C.**

STEAM WORKS, 2 PRINTER'S BUILDINGS.

**"A CAPITAL IDEA"!!**

Said friend JONES, the Go-AHEAD CHEMIST. "I'VE DOUBLED MY TRADE last year since I commenced packing all my customers' prescriptions in Glover's small wood boxes."

And JONES CHUCKLED!!

**WOODEN BOXES**  
ALL SIZES  
MADE TO ORDER

TELEPHONE 4444  
ELECTRICAL  
FOLLOWERS HATCHAM TRADE

DAWNSWOOD  
LONDON  
MARK

PRICE 14/- per doz. nests of 6 Boxes, plain and hinged, from 5" x 2½" x 1½" to 9½" x 6½" x 4½". Nests of 6 for Bottles 4 or to 16 oz., at same price. Single nest, 1/6. Special Terms for Large Quantities to Shippers.

**"CAPITAL, INDEED"!!!**

Said the Colonial Shipper. "Those light nested boxes, shipped in cases (each containing 3-gross nests), are just what is wanted, and I am getting repeat orders doubled. We are all indebted to the Makers, Messrs. C. H. GLOVER & CO., of Hatcham Sawmills, Ormside St., Old Kent Road, LONDON, S.E.!!!"

## PATENT PARCEL POST BOXES.

A Perfectly Cushioned Box, suitable for any description of  
**GLASS BOTTLES OR FANCY GOODS.**

**SPECIAL CUSHION, SILK LINED, for HIGH-CLASS GOODS.**

**LOOSE OR HINGED LID BOXES OR TUBES.**

Set of 6 Hinged-lid Cushioned Boxes for Bottles 4 oz. to 16 oz., 1s. 3d., post free.

Special set of 6 for Fancy Goods { Plain, 1s. 3d., post free. Fancy, 2s. 6d. " Quotations for quantities, Plain or Printed, per return post.

**ORDERS PROMPTLY EXECUTED.**

**G. C. KIRTEL**Y, Printer and Box Maker,  
8 Elswick Court, NEWCASTLE-ON-TYNE.

MADE IN 6 DIFFERENT SIZES.

# VELUTINA POLISHING CLOTH.

THE BEST MATERIAL FOR POLISHING PLATE,  
METALS, FURNITURE, GLASS, or ANYTHING WITH A BRIGHT SURFACE.

*There is None Better than the Best.*

MADE IN 6 DIFFERENT SIZES.

# VELUTINA POLISHING CLOTH

Is .  
Better  
than  
Chamois  
Leather.



JANE: Do you use this wonderful VELUTINA POLISHING CLOTH?

MARY: No; we use nothing but dusters and wash-leather.

JANE: I thought so; that explains why things are so dull at your place, compared with ours!

MARY: Why! does the VELUTINA POLISHING CLOTH make all the difference?

JANE: It brightens up everything when used with a little "elbow grease," whether furniture, plate, metals, glass, or one's temper; and our young gentlemen say there is nothing so good as it for polishing their bicycles; besides, when it's soiled it can be washed, and when dry it's as good as new, and does not become hard and useless like wash-leather.

**WHO SELL IT? ALL CHEMISTS AND DRUGGISTS.**

To be obtained of MESSRS. S. MAW, SON & THOMPSON, Aldersgate Street, E.C.  
And of all Wholesale Houses in LONDON, MANCHESTER, GLASGOW, &c.

LONDON AGENTS, FOR WHOLESALE EXCLUSIVELY—

**H. PARTINGTON & CO., 42A BOW LANE E.C.**

**FLUID &****Disinfectants****NON-POISONOUS****POWDER**

ONCE  
USED  
ALWAYS  
USED.

UNEQUALLED  
FOR  
DOMESTIC  
USE.

“**ODAMINE**”

USED  
IN CASTLE,  
HALL, AND  
COTTAGE,  
HOSPITAL,  
WORKHOUSE  
AND  
FARM.

Manufactured by ODAMS' MANURE & CHEMICAL CO. (LIM.). 116 Fenchurch Street, LONDON, E.C.

“THE MOST POWERFUL GERM DESTROYER AT PRESENT KNOWN TO SCIENCE.”

**12 M**

DISINFECTANT (Non-poisonous).

Now supplied by the chief Wholesale Houses.

Show Cards,

Pamphlets,

Printed Matter,

And any information the Trade may require, can be obtained on application to

Allen & Hanburys,  
BETHNAL GREEN,  
LONDON,

Who are the Sole Bottling Agents for the Manufacturers.

WHOLESALE & EXPORT orders for

**MASON'S**

PERFUMED SOLUTION OF

**CARBOLIC ACID**

Should be addressed to

C. E. MASON & Co., 107 Whitecross St., E.C.

TERMS UPON APPLICATION.

**DAY, SON & HEWITT.**  
LARGEST MAKERS IN THE WORLD OF  
**HORSE & CATTLE MEDICINES.**

**THE CHEMICAL EXTRACT.**

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2s. 6d., 3s. 6d., and 7s. per bot.



Prices complete, 18s. and 34s.

**PILLS & LOTIONS FOR ALL DOG AILMENTS.**  
Price 1s. 6d. per bottle or box.

*Descriptive Catalogue of each preparation on application.*



For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for cleansing and checking Feverish Symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of Milk Fever.

Price (Cows), 13s. per dozen box; (Ewes), 3s. 6d. per doz. 3 doz. box, 10s.

*Liberal Discounts to Foreign Buyers.  
Trade Terms and Full Particulars on application.*

*Attractive Showcards and Handbills sent with each order.*

**THE GASEOUS FLUID.**

A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. Fo: Debility, Scour, or Diarrhoea in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

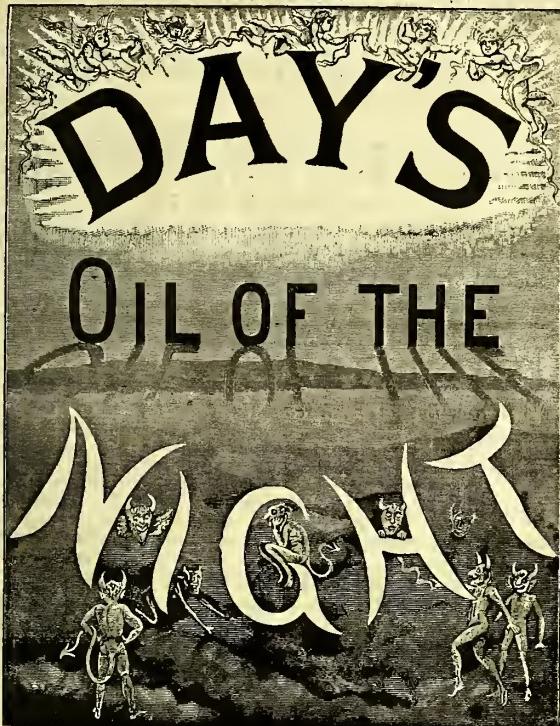
Price 1s. 9d. per bot. 20s. per doz.



**FOR HORSES, CATTLE, & SHEEP.**  
Prices:  
£6 6s., £2 16s. 6d., & £1 8s. 9d.

**ROYAL ANIMAL MEDICINE MANUFACTORY, 22 DORSET ST., LONDON, W.**

# THE EMBROCATIVE BALM.



1,000 Circulars  
with name on  
sent with  
every order if  
requested.

1/1½ and 2/9 per bottle, less discount, from  
wholesale houses, or direct.

**DAY & SONS, CREWE.**

## HORSE AND CATTLE MEDICINES.

For Colic and Gripes in Horses, Hoven or Blown Cattle and Sheep, Scour in Calves, &c.  
1s. 8d. per bottle, or 19s. per dozen.

### DAYS' "PURIFIED" DRIFFIELD OILS.

("DAYS' OILS.")

Heals Kick, Cuts, Stake Wounds, Broken Knees, &c.; Safely Heals all Wounds  
in all Animals; a Soothing and Antiseptic Oil for Lambing and Calving.  
Price 2s. 6d. and 6s. per Bottle.

### DAYS' WHITE OILS.

Unequalled as a Safe Embrocation for all Stock; for Sprains, Swellings, Wind,  
Galls, Sprung Shinew; for Rheumatism, Sore Throat, Weak Joints; for Curbs  
and Splints when forming.

Price 2s. 6d. and 6s. per Bottle.

### DAYS' RED DRINK (or COW DRENCH).

Cures Fever and Costiveness in Cattle; Cleanses and Cools the Blood and  
System; for Red Water, Indigestion, and Yellows; Cures Bad Cleansing and  
Prevents Milk Fever.

Price 12s. per dozen Packets.

The "EWE DRENCH" acts as above for sheep. 3s. 6d. per dozen.

### DAYS' HUSKOLEIN.

The most successful remedy for Husk, Hoose, or Hoast in Stock, and Worms  
in Horses, Colts, and Dogs.

Price 20s. per dozen Bottles.

### THE "ORIGINAL" UNIVERSAL MEDICINE CHEST.

For Disorders of HORSES, CATTLE, and SHEEP.  
Price, with Guide, "Everyday Farriery," £1 4s., £2 4s., and £5.

### THE "ORIGINAL" HORSEKEEPERS' MEDICINE CHEST.

Arranged specially for Disorders in HORSES.  
Price, with Guide, "Everyday Farriery," £1 4s., £2 14s. and £5.

ONLY GENUINE FROM

**DAY & SONS, CREWE,**  
**CHESHIRE.**

## FRED. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES : Glycerine—Gum Arabic—  
Gum Tragacanth—Pure Beeswax—Honey.

## WILKINSON'S

(ESTABLISHED 1829)

RED JAMAICA

ESSENCE OR FLUID EXTRACT OF  
(keeps good in all climates)

**SARSAPARILLA**

WELL KNOWN AS "A superior preparation that may always  
be relied upon."

Sold by all Wholesale and Export Houses.

WAREHOUSE & LABORATORY, 42 HATTON WALL, E.C.

## POWELL & BARSTOW

(Late W. HURLSTONE & Co. Established 1830),

Manufacturers, on the premises, of every description  
of Elastic Gum,

SURGICAL INSTRUMENTS AND ELASTIC STOCKINGS,  
58 BLACKFRIARS ROAD, LONDON, S.E.

Samples, Price Lists, and Quotations on application.

## CORNS ! BUNIONS ! NAILS !

And all Diseases of the Feet Successfully Treated, Without Pain, by  
**MR. GARDNER**, 85 REGENT STREET, W.  
Highest surgical testimonials (Sir Wm. Jenner, &c.). Also testimonials  
from the Prime Minister, Bishop of London, H.R.H. Prince Christian, &c.  
**CORN**, **BUNION**, and Chilblain Ointment absolutely cures gouty  
and all painful affections of tender feet, soft corns, stiff and enlarged toes  
and joints, &c. Post free 15 stamps. **SKIN TONIC BALSAM**  
gives great **Purity of Complexion**, removes Redness, Roughness  
also promotes healthy action and Softness of the Skin. 19 or 38 stamps.

E. H. THIELLAY'S (Registered 1867)

## EAU F. JOUVENCE, GOLDEN.

Producing Flaxen Golden Hair.

Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.

This is a very superior article. In Bottles at 3/-, 6/-, & 10/-

All Wholesale Houses, or direct from

E. H. THIELLAY

Parfumeur-Chimiste, Amersham Park, New Cross, LONDON S.E.  
(SHOWROOM AT CHARING CROSS HOTEL.) [3]

## CRETA



## PRÆCIP.

Much Lighter and Finer than any other in the Market.

Prices and Samples on application to SOLE AGENTS—

H. E. Stevenson & Co.,

130 Southwark Street, LONDON, S.E.

## JUNE'S HEALTH BATH SALT.

A new refreshing and invigorating preparation which meets with a  
ready sale wherever introduced.

**GOOD PROFIT GUARANTEED.**

WRITE FOR SAMPLES & TERMS,  
LANDOR, ANDERSON & CO., 165 FENCHURCH STREET, E.C.

"Detergent" for Bottle-washing,  
Precipitated Chalk, Hyposulphite of Soda,  
Sulphite of Soda, Glauber Salts, Epsom  
Salts, Alum, Sulphite of Lime.

E. BRAMWELL & SON, ST. HELENS, LANC.

## PRECIPITATED CHALK, WHITEST & PUREST.

Specially prepared for Dentifrices and Toilet purposes.  
Guaranteed free from Iron or Acid. Cheapest Sellers in the Market.

AUG. LEVERMORE & CO., 8 LIME STREET, LONDON, E.C.  
Telegrams—"LEVERMORE LONDON." A.B.C. Code used.

## NESS & COMPANY, DARLINGTON,

SPECIALISTS IN

## SHEEP DIPS (Fluid, Paste, Powder) and DISINFECTANTS.

Highest Award World's Fair, Chicago, and Four Gold Medals.

WRITE FOR PARTICULARS AND SAMPLES.

## CHEMISTS' BOXES

Of New Design, Perfect Purity, & Perfection of Finish.  
Chemists wanting either Choice Super Quality or Cheap Boxes should send  
for Price List and Samples to

**A. BARRY,**  
35 LECONFIELD ROAD, HICHBURY NEW PARK, LONDON, N.  
CHEMISTS' BOXES A SPECIALITE.

## GLENDENNING'S BEEF AND MALT WINE.

THE FINEST PREPARATION OF THE KIND IN THE MARKET.

Prices and terms on application. Agents appointed.

**W. GLENDENNING & SONS**, Importers of Special Wines for Invalids,  
9 GRAINGER STREET, NEWCASTLE-ON-TYNE.  
Established 1867.

## SAUNDERS BROTHERS,

Manufacturing Chemists, &c.

Offices: 6 ROCHESTER SQUARE, LONDON, N.W.

Keen Buyers of all CHEMICALS, DRUGS, and  
SUNDRIES should write for Quotations.

ENOUGH FOR THE WISE.

## PROFITABLE EXTRAS FOR CHEMISTS.

## "MIXED PARCELS."

Every requisite for Smokers in One order. Maximum of profit—

Minimum of trouble.

Send Postcard for Illustrated Price List (60 pages) free.  
**SINGLETON & COLE, BIRMINGHAM.**

## COSMOSINE

THE ANTISEPTIC SALINE FOR THE BATH & TOILET-WATER,  
IMMEDIATELY SOFTENS HARD WATER

Refreshing and Invigorating, Delightful to the Skin.  
Prepared by COSMOSINE CO., Granby Row, Manchester.  
Exquisitely Perfumed. Retails, Boxes, 1s. and 2s. 6d.

Terms direct, or through Wholesale Houses.

KOMCHACIN

## KOMCHACIN CALORIC

Has for Twenty Years Cured

PILES, HEMORRHOIDS, AND FISSURE.

As this Remedy is now being extensively advertised,  
Chemists should write for particulars to Central  
Depot for the United Kingdom,

23 The Pharmacy, Allerton, Bradford, Yorks.

Manager—A. A. KNIGHT, Chemist.

**IRISH VELLS,** A. & J. WARREN,  
IMPORTED BY  
Wholesale Druggists and Methylated Spirit Makers,  
Makers of Essence of Rennet for Cheese.  
Supplied in 40 and 20 gallon Qasks and 10-gallon Tins, also in smaller  
packages, bearing their name.

23 & 24 REDCLIFF STREET, BRISTOL.



MORSTADT  
**GACHETS**  
THOS. CHRISTY & CO. 25 Lime St. E.C.

Chemists  
should  
try our new  
**2d.**  
Line.

LAKE MILLAR'S  
**INFECTION KILLER.**  
PRICE 2d. EACH.  
Handsomely put up in Glass-top Cases.  
Sample Case post free for 3/- of  
LAKE, MILLAR & CO., Manufacturers,  
Handsworth, BIRMINGHAM.

Thousands  
already sold.  
Repeat orders  
from every  
customer.  
Give it a trial.  
Money  
refunded with  
pleasure  
if you are not  
satisfied.

**KARSWOOD CREOSOTE.**  
A SPÉCIALITÉ for INHALING from a POCKET HANDKERCHIEF.  
Cures Whooping Cough, Croup, Bronchitis,  
Asthma, Sore Throat, Influenza, Catarrh, and Hay Fever.  
Bottles, 11/-, 27/-, 42/- per dozen. [1]

E. G. HUGHES, Chemist, Victoria St., MANCHESTER.

Invaluable  
for  
Cyclists,  
Footballers,  
Golfers,  
MESSRS. SANGER & SONS, BARCLAY & SONS (LIMITED), and  
NEWBERRY & SONS, LONDON.  
Athletes,  
and  
anyone  
liable to a  
Chill.  
See page 46 (bottom folio) of "The Chemist and Druggist," December 1, 1894.

## RYPONA

For Rheumatism, Lumbago, Sciatica,  
Sprains, &c.; also for Cuts, Wounds,  
Boils, and Skin Affections.  
Of all Chemists and Patent Medicine  
Vendors—  
Liniment, 1/1<sup>st</sup> & 1/2<sup>nd</sup>; Ointment, 7d.  
Wholesale of

MESSRS. SANGER & SONS, BARCLAY & SONS (LIMITED), and  
NEWBERRY & SONS, LONDON.

See page 46 (bottom folio) of "The Chemist and Druggist," December 1, 1894.

## RENNET POWDER

(CLEMENTS'),

FOR JUNKETS, CURDS AND WHEY, &c.

KEEPES ANY LENGTH OF TIME.

Junket made with my Rennet Powder is made quicker than with Liquid,  
and a firmer curd is formed. Sold in 8d. and 1/- tins.

Proprietor: J. W. BAKER, 12 Lewin's Mead, BRISTOL.

## QUIBELL BROTHERS,

MANUFACTURERS TO THE TRADE OF

**SHEEP DIPS.**

NEWARK-ON-TRENT, NOTTS.

PURE MUSHROOM KETCHUP (GUARANTEED).  
50 per cent. saved by bottling yourself and buying direct from actual growers  
and produce through Special Contract Agent. Cask (holding 13 doz.) reputed  
half-pipe 50/-, Cask (holding 20 doz.) 59/-, Cask (holding 32 doz.), £1 15s. net,  
each with order, averaging 2/3 per dozen about half regular trade price.  
Carriage, Cask, Corks, Capsules, Wrappers Labels (own name) free. Bottles (if  
required) supplied to order, direct from makers, 7/6 per gross.

N.B.—"Pure Mushroom Ketchup" being par excellence the most appetising,  
palatable, and pleasant of all condiments, and superior to all sauces, buyers are  
cautioned against purchasing the "cheap and trashy" substitutes in the market,  
which are made solely from animal matter or offal, and without mushroom.  
Warranted to keep perfectly in any climate, and to retain its natural bouquet,  
delicacy, and aroma unimpaired. All orders promptly executed in rotation.

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**WATSON & WATES'  
REDUCED PRICES.**

EVERY CHEMIST SHOULD SEE NEW LIST.

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THE "NORTH STAR" BRAND.

## COD LIVER OIL.

LOFODEN COD LIVER OIL CO., 138 Minories, LONDON, E.C.

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CARBONATE, CALCINED, AND HYDRATE.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

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Or every description, are GUARANTEED PURE.

SPECIALITIES:-

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FOR THE COMPLEXION.

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THE MOST LUXURIOUS SOAP MADE.

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For Curing and Relieving ECZEMA, RINGWORM, and all Skin Affections

Write for Testimonials to

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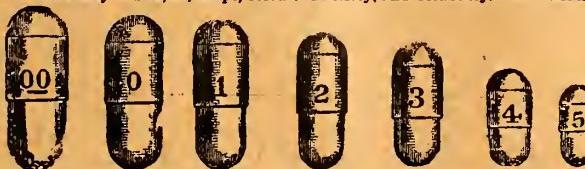
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 Have been appointed EUROPEAN AGENTS for  
**THE WARREN CAPSULE CO.,**  
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**EMPTY GELATINE CAPSULES,**  
 Corner Sixteenth and Baker Streets, DETROIT, MICH., U.S.A.

The Capsules made by us are perfect in uniformity of size, fit, shape, colour, elasticity, and solubility, and number from 00 the smallest, to 00 the largest.

Our Improved Process of manufacture and inventions of New Machinery enable us to put our goods on the market unexcelled, and at a less cost than has hitherto been done. They are made of the very finest French Gelatine, and will stand in any climate.



Seven sizes. in Boxes of 100. Per box, 4d.; per dozen boxes, 3s. 9d.

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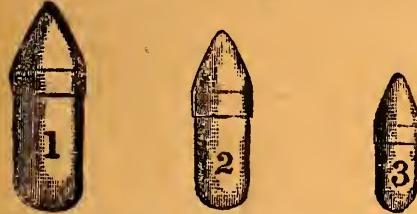
The approximate capacity of empty capsules will vary in the weight of different samples of the same powdered drug or alkaloid, according to the degree of compression exerted in filling.

SEE ANNEXED TABLE.

SIZE	00	0	1	2	3	4	5
Quin. Sul .. gr.	8	6	4	3	2	1½	2
Quin. Mass .. gr.	16	12	8	6	4	3	1½
Pulv. Ipecac. Oe... gr.	12	8	6	4	3	2	1
Pulv. Aloes .. gr.	10	7	5	4	3	2	1
Bism. Sub Nit. .. gr.	20	14	10	8	6	4	2
Saficin .. gr.	10	7	5	4	3	2	1
Pulv. Rhei .. gr.	12	8	6	4	3	2	1
Acid. Salicyl. gr.	8	6	4	3	2	1½	2

**RECTAL SUPPOSITORY CAPSULES**

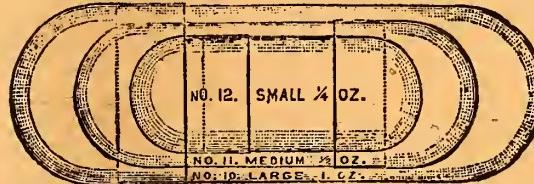
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THREE SIZES.

In boxes containing 100, one size, per box ... ... 4d.  
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**CAPSULES (VETERINARY).**



For administration to horses and cattle, or may be filled with absorbent cotton saturated for vaginal medication.

No. 10, large (ounce), in boxes of 10, per dozen boxes	8/-
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No. 10, bulk, per 1,000	52/-
No. 11 "	47/-
No. 12 "	42/-

We supply the medium size in absence of specification.

**"MAY-ROBERTS" WATER BATH**

(REGISTERED).

This Water Bath will supply a long-felt want amongst Chemists and Perfumers where small quantities of materials have to be dealt with.

The old form of Water Bath necessitates the use of a second vessel for pouring the melted Pomade Cream, or other substance into the bottles or jars in which they are sold. In the "MAY-ROBERTS" Water Bath the earthenware bowl can be lifted out of the tin containing the boiling water, the process of cooling being thereby very much expedited, and the contents can be poured into the bottles or jars direct from the bowl. The Bath is also supplied with an earthenware cover.

1-PINT .. 8/- each. 5-PINT .. 5/6 each. 1-PINT .. 9/6 each.

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BUYERS ARE CAUTIONED TO SEE THAT THEY GET THE

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Single Cases Delivered in London, and, at the Same Prices,  
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NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

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**ENGLISH,**  
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PURITY AND EXCELLENCE GUARANTEED.

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SOUTHWARK, LONDON.

# The Chemist & Druggist

## SUPPLEMENT.

Businesses Wanted  
Businesses for Disposal  
Premises to Let  
Auction Sales

SATURDAY, JUNE 1, 1895

Partnerships  
Situations Vacant  
Situations Wanted  
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

### THE ADVANTAGES

Of advertising in this Supplement should be kept in mind by Transfer Agents and Valuers; by Wholesale Houses and Contract Agencies; by Pharmacists desirous of selling Businesses, or of buying them; by those who want Assistants, or who are seeking Situations. For all such it is the medium which gives the smartest results, and its unique method of circulation has secured for it a surprising popularity. Space for displayed advertisements can be obtained on application to the Publisher, 42 Cannon Street, London, E.C.

### CHEMISTS' TRANSFERS.

#### MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C. CHEMISTS' TRANSFER AGENTS.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

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1.—£800.—LONDON, S.E. (Suburb).—Dispensing and Retail, situated in a busy district; returns nearly £800 yearly, *half profit*; single-fronted, well-fitted shop, with good stock; very good house, with private entrance; moderate rental, held on lease; price £600; worth attention.

2.—£1,000.—LONDON, S.E. (Suburb).—Good-class Dispensing and Retail, well situated in a main thoroughfare; returns over £1,000 yearly, and *good profits* above the average; comfortable house, with garden; moderate rental; price £800.

3.—£600.—LONDON (Suburban).—Retail, Prescribing, and Dispensing Business; returns £600 yearly under management; can be increased; nicely-fitted shop and ample stock; terms, valuation of stock and fixtures only required.

4.—£600.—LONDON (Suburb East).—Established Business, Retail and Prescribing; *very profitable* and improving; returns about £600 yearly under management; double-fronted shop, ample stock; convenient house, with garden; good investment for small capital; price £350.

5.—£1,300.—SOUTHWARK.—Old-established Business; genuine, with select wholesale of profitable nature; returns £1,300 yearly; good warehouse room and comfortable residence; the business has been held by vendor many years; now retiring; situation is undeniably good; about £1,000 required.

6.—£400.—LONDON, N.W.—Dispensing and Retail Business, with Prescribing; situate near a central station; returns between £350 and £400 yearly, easily increased by an energetic man; well-fitted shop, and ample working stock; convenient house, with capital position; price about £220.

7.—£350.—LONDON, E.C.—Branch Business, situate in a very good position, in a busy locality; nicely-fitted shop, attractive; returns, under management, about £350; low rental; good investment for a young man with small capital; about £200 required.

15.—PARTNERSHIP.—A Partnership occurs for a business man; Chemist preferred, prepared to take an active part in a Perfumery business; Wholesale; the profit is about £450 yearly, but can be largely extended; particulars on application; about £500 required.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

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SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital, from £200 to £500.

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Valuer, 60 St. Stephen's Road, LEICESTER.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE.  
NO CHARGE TO BUYERS.

**LONDON SUBURB.**—£1,500 returns; first-class Retail, Dispensing, in good locality, and producing at least one-third net profit; price £1,400; reference must accompany inquiry.

**LONDON, N.**—£650 returns; nice district; good-class Retail; good house, rent £40; price £450.

**DERBYSHIRE.**—County Retail, with Wine and Spirit agency; returns £750; price £450.

**LANC.**—£500 returns; General Retail and Prescribing; price £350.

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Established 1870.

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2.—**WEST MIDLANDS.**—Good-class Light Retail and Dispensing Business, held by vendor 30 years; returns £1,100; profits good; owner retiring; good house, low rent; price £900.

3.—**KENT** (within 20 miles of London).—Old-established good-class Retail and Dispensing Business; returns £1,300; net profit £450; good house, handsome shop; price £1,050.

4.—**SURREY.**—Large town; Retail, Dispensing, and Prescribing Business; returns £7 weekly, steadily increasing; rent £40; good house; good reason for selling; price £250, or offer.

5.—**SOUTHSEA.**—First-class Retail and Dispensing Business, in good position; returns £550, at full prices for everything, if cut would double at once; price £475, part could remain.

6.—**HAMPSHIRE.**—Unopposed Retail and Dispensing Business, combined with Stationery; returns £1,000; net profit £400; good house, modern shop, well fitted, and heavily stocked; price £800, or offer.

7.—**MIDLANDS.**—Retail, Dispensing, and Prescribing Business; returns £800 under management; rent £40; good house; vendor, having other engagements, will accept valuation.

8.—**LONDON, W.**—High-class Light Retail and Dispensing Business, making a net profit of £450 yearly; splendid position, centre of the West-end squares; price £1,250.

9.—**WEST KENSINGTON.**—Light Retail, Dispensing, and Prescribing Business; returns £600; handsome double-fronted corner shop; good house; at valuation about £250; no goodwill.

10.—**LONDON, N.W.**—Main street; Light Retail, Dispensing, and Prescribing Business; returns £1,250; good profits; books open for inspection; price £750; worth special attention.

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**SPECIAL ATTENTION** is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

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Chemists' Consultants, Investigators, Transfer Agents and Valuers,  
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FORTY-FOUR YEARS' EXPERIENCE.

**OLDHAM.**—Rent £25; price £220; returns £350; good house.

**CAMBRIDGESHIRE.**—Profit £287; rent, on lease, £110; splendid house; valuation about £500; goodwill by arrangement.

**LANCASHIRE.**—Wholesale; about £1,000 required; good connection; death sole cause of sale.

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**POTTERIES.**—Profit, £750 in 3 years; price £300; rent £22.

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(ADJOINING CANNON STREET STATION).

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**S.W.**—Retail and Prescribing Business; returning about £400, with good profits; nice residence; price £250.

**W.**—Good-class Retail and Dispensing; returning about £700. Handsome, well-stocked shop and good house; price £300, or valuation.

**W.**—High-class Dispensing; returning £1,300 at good prices; price £300 goodwill and valuation.

## COUNTRY.

**BIRMINGHAM.**—A Cash Retail and Prescribing trade; returns at full price, £450 a year; price £225.

**YORKSHIRE.**—Cash Retail and Prescribing; returning £1,500; price £1,100, or valuation; terms can be arranged.

## VALUATIONS PERSONALLY CONDUCTED.

## OUR SPECIALITY.

### VALUATIONS

AND

### STOCKTAKING.

— 25 YEARS'

EXPERIENCE.

### TERMS ON APPLICATION.

## NEXT DOOR to BOW CHURCH.

**STAFFORDSHIRE.**—Light Retail, Prescribing, and Dispensing Business, with some Extracting; commanding double-fronted shop, ample stock; returns about £550; several good Proprietary articles; capital home, stabilizing, &c.; price £400. By adding a little heavy trade this figure can be considerably increased.

**LONDON, W.**—Smart Retail, Prescribing, and Extracting Business, old-established; splendid cash connection; enviable position at a point where several streets cross; shop mahogany-fitted; good prominent window; there is also a well-lighted room at back nearly as large as the shop; net profit, £205; price £350; to a good prescriber success is certain.

**PARTNERSHIP** in an extensive Wholesale Business; superior trade; capital required, £2,500; references required.

**NEAR LONDON.**—Retail, Prescribing, and Photographic requisites; well-fitted shop in first-class position; returns £450 under management; good house, long lease; price £400.

**LEEDS.**—Retail and Prescribing, &c.; returns about £900; good house; price £600.

**SUSSEX.**—Unopposed Light Retail and Prescribing Business; net profit £180; nice shop and excellent house; this Business is capable of considerable increase; price £300.

**LONDON, BORO'.**—Quick Retail, doing about £700 yearly; price £525.

**LONDON, S.W.**—Unique position; a high-class Dispensing and Retail Business; handsome lofty shop, superior fittings in mahogany; well stocked, and returning over £1,000 yearly; no residence; price £750, or fixed sum for goodwill and valuation.

## 56 CHEAPSIDE, LONDON, E.C.

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3s. 6d. for 50 words; 6d. for every 10 words beyond.

**GENUINE** Light Retail, Dispensing, and Prescribing Business, doing £7 weekly under management, can be largely increased; rent £30; price £225. H. W., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**CHEMIST'S** Business, old-established, with lease, for Sale; rent £32; rising district, near London; good opportunity for Chemist with small capital; genuine investment at low price. Address, "Lessee," 14 Glengarry Road, East Dulwich.

**FOR** Sale, by private treaty, as a going concern, Chemist's and Druggist's Stock-in-Trade, Furniture, and Fixtures; large West Riding town; price about £200. For particulars, and to view, apply, Jo eph Croft, Chartered Accountant, Dewsbury.

**WEST OF ENGLAND.**—Old established Light Retail and Dispensing Business; returns £1,400; for sale owing to vendor retiring after a great number of years; price asked £1,000. "Zea," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## SITUATIONS OPEN—Cont.

**WANTED**, a qualified Assistant. Apply personally, C. J. Miles, 165 Edgware Road, W.

**H.** M. GROSE, Pharmacist, Swansea, is in want of a qualified Assistant as second hand; 3 kept; a knowledge of Welsh desirable. Full particulars, with photo, which will be returned.

**JUNIOR**, or good all-round Assistant; indoors; good Counterman and fair Dispenser. State full particulars, salary expected, carte if convenient, G. L. Douthwaite, Newport, Shropshire.

**WANTED**, immediately, for a brisk Cash Business, two Juniors and a qualified Dispenser. Apply, personally, to Lewis & Burrows (Limited), 2 Bucknall Street, New Oxford Street, W.C.

**WANTED**, Manager or Assistant, qualified, for Light Retail, Dispensing, and Prescribing business; permanency; indoors. Apply, stating age, salary required, and references, to King's Pharmacy, Southend-on-Sea.

**CHEMIST'S** Assistant (qualified) wanted for Calcutta; single, and must have had first-class experience; 4 years' agreement; passage out paid. Apply, by letter, to Alex. Lawrie & Co., 14 St. Mary Axe, London, E.C.

**UNQUALIFIED** Assistant, energetic and capable, wanted for South Coast; must have good references from recent situations. State outdoor salary required, and usual particulars, "Coca," c/o Messrs. Mace & Haldane, Milton Street, E.C.

**WANTED**, at once, a competent and trustworthy qualified Assistant for Drug Stores, Birmingham; must be capable of taking management; abstainer; middle-aged; outdoors. State salary and experience, Newton, 431 Moseley Road, Birmingham.

**A**T once (indoors), two first-class Countermen; town; preference given to those experienced in quick Cash business. Also vacancy for smart Junior. Apply, stating fullest particulars, to X., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C.

**QUALIFIED** Assistant (indoors) wanted, as Senior, in a quick London Cash business; one with similar experience preferred; aged 24 to 40; salary and commission. Full particulars to Williams, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**OUTDOORS**; smart Assistant, about 23; quick Retail and Dispensing; good Counterman; gentlemanly habits; must be industrious; excellent references required; good salary to reliable man. Knowles, opposite Holborn Town Hall, 182 Clerkenwell Road, E.C.

**SENIOR** and Junior Assistants required immediately; Senior must be over 25 and capable of taking charge; state salary (outdoors). Junior (about 22), of good experience and address; state salary (indoors). Photos and particulars to W. V. Wright, Broadway, Hammersmith, W.

**WANTED**, immediately, for East London business, good Assistant (indoors), age not above 27; must give good references and be thoroughly trustworthy; could travel one day weekly; hours 8.30 to 9.30; half-day recreation weekly. Capable men, apply, with usual particulars, to Mabyn, 1 King David Lane, Shadwell, E.

**HARDWORKING**, trustworthy, sensible young man required as Manager of Wholesale Drug, Patent, and Sundry Warehouse in country; Major qualification preferred; must possess ability to control workmen and understand requirements of Retail trade; experience in putting up Proprietary articles would be useful; commencing salary, 55s. Apply, "Wholesale Druggist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

**MANAGER**; married; 35; South Coast. H., 144 Stockwell Park Road, Brixton.

**ASSISTANT**; reliable; with opportunities for study. Jones, 69 Gloucester Road, N.W.

**LOCUM-TENENS**; good references; disengaged. Jelley, 4 Buckingham Street, Portland Place, W.

**LOCUM - TENENS**; qualified; long experience; disengaged. "Chemist," 8 Church Street, Salisbury.

**ASSISTANT**; 26; married; unqualified; good experience; references. "Radix," 21 Marden Road, S.E.

**MANAGER** or Counterman; 18 years' experience; disengaged. 272/25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

**QUALIFIED**; 25; outdoors; tall; good references; accustomed to Store trade. 250/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT** or Manager; aged 31; height 5 ft. 9 in.; experienced; married; 7 years last situation as Manager; practical Photography. 272/161, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TEMPORARY**, Manager or Senior; qualified. "Chemist," 18 Madoc Street, Llandudno.

**A**S Dispenser, or in Laboratory; deaf; 21; Minor. Pentney, 175 Old Chester Road, Birkenhead.

**LOCUM**; Extractor, Prescriber; aged 40; steady; reference; open dates. "Nemo," Yapps, Bury.

**LOCUM** or Manager, branch or otherwise; qualified; experienced. Buck, 109 Stuart Street, Luton, Beds.

**ASSISTANT**; 26; unqualified; London; outdoors preferred; 11 years. Wilson, Mount Pleasant, Downham.

**WANTED**, situation as Improver; 3 years' experience. Turner, The Grampians, Blacklands, Hastings.

**LOCUM** or Manager; aged 40; qualified. R. N., 5 Claremont Street, Nelson Street, Oxford Road, Manchester.

**WANTED**, situation as Assistant; experienced Bookkeeper. Apply, E. Thomas, London House, Llantrisant.

**STUDENT** as Dispenser to a Medical man; London preferred. G. F. Charles, 117 Duke Street, Treherbert, Glamorgan.

**LOCUM** or Branch Manager; disengaged; experienced; good references. Keating, 12 Wansey Street, Walworth.

**JUNIOR**; qualified; 6 years' experience; good references; London preferred. "Ebenezer," 12 Falmouth Road, S.E.

**DISPENSER** to Surgeon; North London; outdoors; 6 years' experience. "Alpha" College, 32 Frainfield Road, Highbury, N.

**MANAGER** or Senior; aged 29; tall; Major; experienced; exceptional references. George, 20 New Street, Dorset Square, N.W.

**CHEMIST'S** Son, 19 $\frac{1}{2}$ , passed Prelim., is open to engagement as Improver; state terms. "Seneca," 14 Victoria Street, Rotherham.

**FRANCE** or Belgium.—French and English Assistant; outdoors. 268/25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**JUNIOR**; 22; abstainer; 4 $\frac{1}{2}$  years' good Country experience; disengaged June 15; Midlands preferred. Griffiths, 20 Magdalene Street, Oxford.

**ASSISTANT**; 23; tall; good appearance; Extract, Dispense, Prescribe; terms moderate and references good. Eve, 76 Lozells Road, Birmingham.

**LOCUM-TENENS**; 26; qualified; disengaged; West-end and Hospital experience; day or week. 6 Newington Hall Villas, Stoke Newington, N.

**SURGEON'S** Dispenser, Chemist's Manager, or Locum; married; disengaged June; highest references. "Alpha," Albany Villa, 101 Dover Road, Folkestone.

**WHOLESALE**.—As Department Manager (Wet preferred) in London; well up in manufacture of French Essences. R. C., 18 Hampden Road, Hornsey, N.

**LIVERPOOL** or Suburbs.—Junior; aged 21; good experience; time for study. "Omega," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER**; qualified; thoroughly competent; neat and accurate Dispenser; expert in Teeth-extracting. Calvert, 106 Ledsam Street, Birmingham.

**A**S Locum, in Wales or West of England; disengaged June 4th; reliable; qualified. 267/14, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**THOROUGHLY** experienced Dispenser, Prescriber, Extractor: excellent Counterman; 30; single; last situation 3 years. "Rex," 23 Chapel Walk, Sheffield.

**MANAGER** or Assistant; Country preferred; aged 29; 15 years' experience; exceptional references; married; unqualified. Roberts, 106 Paterson Street, Birkenhead.

**DISPENSER** requires re-engagement (outdoors), London only; qualified; 28; first-rate experience and references. F. S., 12 Great Smith Street, Westminster, S.W.

**BRANCH** Manager, Locum, or Senior; thoroughly experienced and reliable; highest references. 269/33, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TRAVELLER** favourably known amongst bulk of Chemists Northern half England and Wales is open for an offer; firm already on ground preferred; highest references 268/22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ASSISTANT**; 23; accustomed to first Counter high-class Store; thorough theoretical and practical knowledge of the business; 5 ft. 9 in.; outdoors. "University," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## SITUATIONS OPEN—Cont.

**WANTED**, to take entire charge of small Pharmacy; must have full knowledge of Homeopathic Dispensing. Send testimonials to Dr. McKilliam, Bennett Park, Blackheath.

**Cousins, Thomas & Co.**, Chemists, Oxford, require a thoroughly competent qualified Assistant. Apply, with full particulars, and enclosing photo (to be returned).

**JUNIOR**, for Cash business; must be a smart and good Counterman; knowledge of Tooth-extraction; indoors. Send full particulars, H. W. B., 161 Seven Sisters Road, Holloway, N.

**JUNIOR** Assistant, immediately, who has had London experience; indoors; must be well recommended. Apply, personally if possible, and state full particulars, Read, 90 Victoria Street, S.W.

**A** once; an Assistant for Season or longer; Minor qualification and accustomed to good-class Dispensing business. With terms, height, and photo, apply, A. Thresh, Chemist, Buxton, Derbyshire.

**WANTED**, a gentleman qualified for Dispensing and take charge of Counter in provincial town; short hours, no Sunday work. Apply, "Stores," c/o Messrs. Hanson, Son & Barker, St. Botolph Lane, E.C.

**SHARP** and energetic Assistant wanted, accustomed to brisk Cash business; to Manage Branch; Tooth-extractor; outdoors; half-day off each week; Minor qualification. Hunter, Cash Chemist, Carlisle.

**CHEMIST, A.P.S.**—Gentleman required to take Management of Department in a General Store. Apply by letter giving full particulars, experience, &c., to The London Supply Stores, George Street, Richmond.

**ASSISTANT**, about 22, thoroughly competent, and capable of taking charge; at once. Apply, giving references, full particulars, and enclosing carte (if possible), to H. W. Baker, Chemist, Spring Gardens, Buxton.

**TRAVELLER**.—Wanted, by a firm of Wholesale Druggists, a Gentleman with connection in London, to work an already existing good trade. Address, with full particulars, to G., c/o Messrs. Streets, 30 Cornhill, E.C.

**WANTED**, immediately, a reliable Junior (indoors), in a Light Retail and Dispensing business. Apply, stating age, height, and salary required, enclosing photo, to Adams, Chemist, Formosa Street, Maida Vale, London, W.

**JUNIOR** or Improver wanted, for good-class Cash trade; must possess good credentials for trustworthiness and ability. State salary required, age, and all customary information, to Timothy White Company, Chemists, Ryde, I.W.

**SOUTH COAST**.—Wanted, a qualified Locum-Tenens, about 30, from June 18, for a fortnight; must have good references; outdoors. Full particulars to R., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TORQUAY**.—Outdoors (rooms provided); first-class front Counter-man; must be experienced and qualified; a gentleman seeking a permanency preferred. Photo and particulars, to E. A. Holloway, The London Drug Stores.

**MANGER** for Drug Stores; large, good-class trade; must be smart business man, with good experience. Apply, full particulars, salary, experience, &c., to "Progress," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, an Improver or Junior Assistant; indoors; must be active and obliging. Enclose photo and usual particulars, stating salary required, to C. D. Cumber, Chemist and Mineral-water Manufacturer, Witton, Bourneham.

**WANTED**, an active Assistant for the Counter, and to assist in Dispensing; qualified preferred. Reply, with full particulars, enclosing reference and salary required (outdoors), to James Stewart, 389 High Street, Cheltenham.

**IMMEDIATELY**, a qualified Assistant for good-class Dispensing business, accustomed to Store trade; indoors. Apply, personally if possible, to "Manager," West Kensington Drug Stores (Limited), 1 Baron's Court Road, West Kensington.

**WANTED**, Chemist, holding Minor qualification of Pharmaceutical Society, to Manage a business in London; salary and a share of profits. Apply, with particulars, to 267/32, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**EARLY** in June; Assistant of good address, principally for Counter and Stock; one having some knowledge of Dispensary-work preferred. Apply by letter, stating age, height, and experience, and stating when disengaged, J., 18 Harrow Road, W.

**CHEMIST** and Postal Assistant; one who thoroughly understands Postal duties with Sounder, and competent to take sole charge when required, whose character will bear the strictest investigation. "Postal master," P.O., Victoria Road, Peckham, S.E.

**WANTED**, Manager for Branch Country Retail and Dispensing; Minor qualification; married or single; age about 25; must have good references. Enclose carte (to be returned), stating salary, experience, and usual particulars, to Sandwith & Clayton, Ascot.

64

**SMART** Junior, of good appearance and address, about 21 or 22; must be quick at Counter, and reliable Dispenser; preference given to one with knowledge of Postal-work and Tootb-extraction. Full particulars and photo to Ashfield, King's Road Pharmacy, Reading.

**SMART** and energetic Junior, accustomed to an Agricultural and good Country trade, and able to Extract Teeth; in or outdoor; no Sunday duty. Apply, stating if qualified, age, height, and salary required, enclosing photo, to Sbadford & Co., Chemists, Spalding.

**CHEMISTS' Managers**.—Three qualified, married men, to live on the premises; must be pushing Salesmen, Tooth-extractors, and Prescribers; none but sober men need apply; terms: free house, salary, and percentage; state experience and reference. Pare, Bolton.

**WEST KENT**.—General Hospital, Maidstone.—Wanted, a qualified outdoor Dispenser; whole time to Hospital; salary £100 a year. Applications, stating age, with testimonials, to be sent to me on or before Thursday morning, June the 6th next. J. Spooner Hardy, Secretary.

**IN** July, as Manager of Branch in country town in Hertfordshire, competent and obliging qualified man; outdoors: salary £90 and commission; Wednesday half-holiday, Sunday duty nominal; good references. Apply, "Aner," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TO** Druggists' Sundrymen.—Wanted, an energetic, married man to undertake the Management of "Celladema," an Ointment for Veterinary purposes; personal character for trustworthiness indispensable. Write, stating age, previous experience, &c. "Celladema" Manufactory, East Grinstead.

**IMPROVER**.—Pharmaceutical Chemist has a vacancy; time for recreation and study, with assistance in latter to one who would show an interest in the business. Apply, with full particulars, and enclose photo (if convenient), to "Quinine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TWO** Representatives wanted by a firm of Manufacturing Chemists, to call on Brewers and Mineral-water Manufacturers; one for London and South Coast and the other for Scotland. Full particulars as to present and past experience, to "Essence," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**IMMEDIATELY**.—Wanted, active and willing Junior Assistant for pleasant Suburban Retail, with knowledge of Tooth-extracting preferred; comfortable indoor berth, with reasonable hours; one only kept. Apply, with usual particulars (enclose carte-de-v., to be returned), to Mr. Keeble, 2 Station Road, Redhill, Surrey.

**WANTED**, by 13th June, Second Assistant, about 20 or 21, accustomed to a good-class Retail, Agricultural, and Dispensing business; must be well recommended. Apply, giving usual particulars, salary required (indoors), carte if convenient (to be returned), Churchman preferred. Thomas Sellers, Chemist, Coventry.

**WANTED**, immediately, Junior, accustomed to an Agricultural and Family trade, and able to Extract Teeth; indoors only; comfortable home; no Sunday duty. Apply, stating age, height, and salary required, to H. C. Webb, Pharmaceutical Chemist, Buckingham. Please enclose photograph, which shall be returned.

**WANTED**, a smart, energetic, gentlemanly Assistant, about 30, of good appearance and address, accustomed to a good-class Dispensing and busy Retail business. State age, height, salary required (outdoors), references and full particulars, send photo, to 282/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**FOR** June 15.—A competent, qualified gentleman, aged about 26, is required as Senior Assistant, in a small but select business, at the West-end of London; a neat and accurate Dispenser; good handwriting most indispensable. Apply (personally after 11.30 A.M. preferred) to John Taylor, 13 Baker Street, Portman Square, London, W.

**QUALIFIED**, energetic Assistant for Dispensing department; good writer and reliable Dispenser; also qualified Assistant; three others kept; hours 8 to 8, Saturdays to 10, no Sunday trade; one evening each week off at 5: outdoors. Photo, references, and salary required, to Henry Hodder & Co. (Limited), Broad Street, Bristol.

**CAPE TOWN**.—Assistant wanted, for Wholesale Druggist, not over 22 years of age; one with good experience, who understands the manufacture of Pills and Lozenges preferred; must be steady; 3 years' engagement; second-class passage paid. Apply, with full particulars, to R. H., c/o John Murdoch & Co., 52 Leadabull Street, E.C.

**SEASIDE**.—Immediately, a qualified gentlemanly Assistant as Senior; indoors; must be well up in Dispensing, smart and good Counter-man, for a good-class business; one seeking a permanency preferred. State age (not under 26), height, salary required, references, &c., enclosing photo (to be returned), E. Michell-Smith, Chemist, Weymouth.

**IMPROVER** or Junior wanted for Light Retail and Dispensing business, in small seaside watering-place; one who has been 2 or 3 years in the business entertained; a comfortable home, with small salary, and time for study allowed; must be steady and trustworthy. Address, "Statin," c/o Messrs. Woolley & Co., Victoria Bridge, Manchester.

**ROYAL INFIRMARY, ABERDEEN**.—The Directors of this Hospital invite applications for the office of Dispenser; candidates must be Chemists by examination of the Pharmaceutical Society; commencing salary, £70 per annum. Applications, with testimonials of character and ability, to be lodged with the undersigned, not later than 8th June, proximo.

WILLIAM CARNIE, Treasurer,  
Aberdeen, 27 Exchange Street, 27th May, 1895.

**BUSINESSES FOR DISPOSAL—Cont.**

**SOUTHPORT.**—Returns last year nearly £500, under indifferent management; plenty of scope for increase; valuation about £200; very healthy situation. Full particulars, "Binecomate," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LEEDS.**—A splendid little Business for Sale; nearly doubled the takings the last 2 years, and still improving; a chance seldom met with; price £275; suitable for an energetic young man. 270/7, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**PLYMOUTH.**—Old-established Business in centre of town; rent £65, £26 let off; ample stock'd; modern fittings; good opening for Cash Business for smart man; moderate price for cash. Apply, Wm. Searle, 2 Gainsboro' Villas, Alexandra Road, Mutley, Plymouth.

**T**o Chemists about to start.—Good Stock and Fixtures will be Sold a bargain; either to be removed or continued at the same place; present returns £12; low rent, on lease; locality, London, S.E. "Madder," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**G**OOD opportunity for young beginner; small but neglected Business in thickly populated district to be Sold; doing about £4 per week; net rental 9s. 6d. per week, on lease; no reasonable offer refused; suitable for an open Surgery. Address, A, 22 Park Road, West Dulwich, S.E.

**SOUTH MIDLANDS.**—One hour from London; main line of rail; for Sale, through owner retiring, a Light Retail and Dispensing Business, returning £1,000; net profits £350; good house; price £600. "Stann," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**F**OR Sale, in a growing manufacturing town in West Riding of Yorks, a well-stocked Light Retail Business, returning about £150 yearly, has done £450 to £500; satisfactory reasons for sale; accept £145. Apply, "Ilex," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SURREY.**—On the outskirts of a large residential town; a snug little Prescribing and Dispensing Business, with some good Specialities; returns £600; rent £30, long lease; corner shop, in good position; price £525. Apply, "Glyco," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**A**CCRINGTON, Lancashire.—For immediate Disposal, in consequence of the death of Mr. Edward Astin, the Business of Chemist and Druggist carried on by him for the last 31 years; a splendid situation in one of the main thoroughfares of the town. Apply, Mrs. Astin, 40 Beech Street, Accrington.

**D**ISPENSING and Light Retail, in Northern county; good prices; well fitted and heavily stocked; high-class neighbourhood; long lease; well-arranged house; good reasons for disposal; no agents. For further particulars apply, X. Y. Z., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**F**OR Sale, a good Prescribing and Retail Business in South Wales; splendidly fitted and well stocked; very few patents, and good prices obtained; proprietor giving up on account of ill-health, and is prepared to sell at a fair price. Address, 253/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£1,050.**—London, S.E., main Road, improving neighbourhood; attractive shop, 6-roomed house, and long garden, held on lease; net profit £300; price £850; owner taken another business; full investigation to bona-fide purchaser. Address, H. S., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**L**EICESTER.—Near centre of town; death vacancy; Chemist's and Photographic Business, with Dispensing and large practice in Tooth-extracting, which has been successfully carried on for the last 40 years; average returns under manager about £800, could be greatly increased by principal. Apply, B. R., 21 Lincoln Street, Leicester.

**YORKSHIRE.**—£327 returns last year, will increase; rent £13; net profit, after deducting rent, £130; lock-up shop; no opposition; 1,800 inhabitants; stock running down; satisfactory reasons for leaving; no reasonable offer refused; stock about £75; fixtures cost £95. 263/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**D**EATH Vacancy; must be disposed of immediately; situated in the busiest part of the Birmingham markets; in present hands 35 years; Retail Cash and good Prescribing trade; no reasonable offer will be refused to immediate purchaser; rent £60; this is a genuine bargain. Apply, Stirling Grieves, Chemist, Jamaica Row, Birmingham.

**P**RESCRIBING, Dispensing, and Light Retail; steadily increasing returns, showing exceptionally large profits; upper middle-class trade; with capital, returns could soon be doubled; present returns about £700, being an increase of £200 in five years; price £650 for cash; this represents a valuable stock and fixtures. Apply, "Vendors," Wyleys (Limited), Birmingham.

**C**OMMANDING corner in increasing London suburb; modernly fitted and well stocked; no immediate opposition; splendid opening for Dentistry and Photography; if converted into up-to-date stores, returns could be nearly doubled at once; large house at low rent; £1,000 required. Apply, B. O. B., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**Y**ORKSHIRE; large town; suit unqualified man; small Wholesale Drug Business, serving small shops; returns £2,200, with excellent net profit; rent under £20; price, including goodwill, plant, stock, fixtures, current accounts, suit good introduction, £700, or by valuation; opportunity rarely offering. "Wholesale," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**D**ISPENSING and Prescribing, with Light Retail, Business; opened 18 months; fittings new and well arranged; good residential neighbourhood, increasing; no immediate opposition; satisfactory reason for disposal; investigation invited; residence good and distinct from shop; a rare opportunity for moderate capitalist. "Radix," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**T**o be Sold, at valuation, an old-established Country Business in Norfolk; commodious and convenient premisses, with garden and stable; low rent; good-class Family and Agricultural trade, returning about £750, with good profits; sole reason for selling is death of the late proprietor, who had the business for over 50 years. For full particulars, apply to Smith & Sons, Wholesale Druggists, Norwich.

**£1,450** returns; London, N.W.; good-class residential neighbourhood, Bourbombe; splendid corner position; shop large, commanding, and handsomely fitted; good house; rent low; lease 20 years to run; the Business is a genuine Light Retail and Dispensing, with a net profit of over £500 per annum; price £1,400. Applicants with references can have further particulars from F. J. Brett, Valuer, 60 St. Stephen's Road, Leicester.

**TO LET.**

3s. 6d. for 50 words; 6d. for every 10 words beyond

**T**o Let, large Double shop and house, Nos. 67 and 68 Stafford Street; rent only £40 a year; suitable for a large Chemist and Druggist. Apply, 4 Church Road, Edgbaston.

**H**ANDSOME double-fronted Shop and Dwelling-house to be Let in a growing suburban main road; rent only £60; suit Drug Stores. Apply to W. H. Lorden & Son, 109 Trinity Road, Upper Tooting, S.W.

**S**HOP to be Let; splendid opening for a Chemist; noble shop; 8 exceptionally comfortable rooms, very large yard or garden, back entrance, &c.; main road, East London, near Midland and Great Eastern stations; rent £50. Mr. Bacon, 25 Liverpool Street, E.C.

**T**o be Let, with immediate possession, that desirable double-fronted Shop and House, situate in Brunswick Road, Douglas; all modern conveniences; suitable for Chemist and Druggist; with post and telegraph office attached. For particulars, apply Joseph C. Rogers, Estate Agent, Bank Chambers, Douglas, Isle of Man.

**APPRENTICESHIPS.**

**A**PPRENTICE (outdoors).—Dentistry.—A qualified Dental Surgeon has a vacancy in his laboratory for a respectable youth; every branch of mechanical Dentistry theoretically and practically taught; personal supervision; premium according to time served. Address, L. D. S., 181 Edgware Road, London, W.

**W**ANTED, Apprentice in a high-class Business; every opportunity afforded; Chemist's son preferred. Martin, Pharmaceutical Chemist, Southampton.

**SITUATIONS OPEN.**

3s. 6d. for 50 words; 6d. for every 10 words beyond.

**M**ANAGER wanted, for Retail; married; qualified; one accustomed to Prescribing preferred. W. C. Hebden, Halifax.

**P**ART-TIME from about 24th June; Assistant, three nights a week, from 5 to 9.30. Bell & Co., High Street, Wandsworth, S.W.

**Q**UALIFIED Junior (outdoors) for Dispensing, Retail, &c.; salary, 35s. weekly. Apply, W. C. Jones & Co., 23 Bayswater Terrace, W.

**W**ANTED, after Whitsuntide, Junior, accustomed to move; good references. State age, and salary required (outdoors), Magor, Birmingham.

**W**ANTED, a qualified Branch Manager; married man preferred. Apply, giving full particulars, to William Ramsden, Fallowfield, Manchester.

**A**n Assistant (indoors), qualified, for first-class Dispensing. Apply, with full particulars, to C. R., c/o Messrs. Barron, Harveys & Co., Giltspur Street, London, E.C.

**W**ANTED, at once, qualified Assistant, about 30, for five weeks; good Prescriber and Counterman. Apply, personally, to R. Banbury, 390 Walworth Road, S.E.

**A**SSISTANT, at once; indoors; 24 to 26; must be good Dispenser and Counterman, with undeniably references. Apply, personally, 452 Oxford Street, W.

**Q**UALIFIED Assistant required (outdoors), about 25; brisk business; easy hours, no Sunday duty; Counter and Dispensing. B. Adams, Market Place, Mansfield.

**I**MEDIATELY, an Assistant; indoors; qualified; for good-class Dispensing business. Apply, with full particulars, to Jno. Hallaway, 5 Devonshire Street, Carlisle.

## SITUATIONS WANTED—Cont.

**JUNIOR**: 21; 4 years' good experience; indoors. A. Tirrell, Market Square, Hanley.

**TRAVELLER**: 27; good references; experienced. M., 93 Stockwell Park Road, S.W.

**PART-TIME**; one or two evenings weekly. E. H., 28 Princes Square, Kennington, S.E.

**LOCUM-TENENS**; aged 40; qualified, reliable; disengaged June 8. Andrews, Chemist, Walthamstow.

**DISPENSER** to Surgeon; outdoors; experienced; good references. W., 8 Lisburne Road, Hampstead.

**ASSISTANT**; 27; married; unqualified; good experience; references. "Chemist," 54 Woodland Road, Upper Norwood.

**AS** Branch Manager; aged 24; unqualified; fully competent in management. Z., c/o Pharmacy, Southbury Road, Enfield.

**JUNIOR**; 21½; 4½ years' experience; reliable Dispenser; disengaged; town preferred. "Statim," 144 Warwick Road, Kensington.

**ASSISTANT** or Branch Manager; qualified; 36; good experience. "Chemicus," c/o Mrs. Munroe, 146 Rotten Row, Glasgow.

**EVENING** Dispensing for Surgeons; highly recommended by last employer. "Chemist," 55 Prince of Wales' Crescent, N.W.

**AS** Manager or Senior; qualified; aged 29; City and West-end experience. "Chemicus," c/o Mr. Plews, 14 Basinghall Street, E.C.

**JUNIOR**; 21; disengaged; 5 years' country experience; London preferred; could call. W., 8 Walm Terrace, Willesden Park, N.W.

**DISPENSER** or Assistant; London only; Minor; 29; good experience, including city berth; best references. R. S., 136 Waterloo Road, S.E.

**TRAVELLER** requires berth, town or country; former preferred. Apply, 56/39, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LOCUM-TENENS**; 30 years' town and country experience; disengaged after June. "Locum," c/o Davy Yates, 64 Park Street, Southwark.

**MANAGER** or Assistant; aged 30; married; good Prescriber and Teeth-extractor; excellent references. "Chemicus," 451 Gloucester Road, Horfield, Bristol.

**MANAGER**, Assistant, or Locum; accustomed to good-class business; 15 years' experience; aged 30; terms moderate. D., 4 Pembroke Street, St. Clements, Oxford.

**TRAVELLER** (Drugs), good connection West of England, North, and Midlands; highest references. 225/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LOCUM** or permanent; good Prescriber and Salesman; outdoor; 32 years old; unqualified; highest references; 6 years last situation. B. D., 62 Burton Crescent, W.C.

**TRAVELLER**; provincial; drugs; qualified Chemist; excellent connection; highest references; disengaged. 225/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LOCUM-TENENS**, as Manager or Assistant, during Summer holidays; County only; Registered; steady and reliable; highest references; terms moderate. "Extractor," 23 Florence Road, London, S.E.

**SURGEON'S** Dispenser requires Shop experience; indoors; aged 18; height 5 ft. 10 in.; will accept small wages for start; well up in Dispensing. P., 40 Hawthorn Road, Kettering.

**ASSISTANT**, in good-class establishment; aged 23; height 5 ft. 7 in.; experienced; good references; abstainer. "Optimus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MANAGER** or Senior; outdoors preferred; London; single; 30; qualified; wide experience; exceptional references; disengaged. 270/10, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AGED** 20 last birthday; want indoor situation, with (if convenient) time to study; served apprenticeship in well-known Birmingham business; height 6 ft. Write to J. D., 126 Corporation St., Birmingham.

**WHOLESALE**.—Wanted a position of trust in Wholesale Chemist's and Druggist's; Wet or Dry counter; could do Town Travelling; good references. Reply, "Beta," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WHOLESALE**; office; situation by experienced Clerk; Invoices, Ledgers; very fast worker; highest references; every knowledge of trade; disengaged. P. T., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LABORATORY** Man or Stockkeeper; capable of putting up and finishing off Proprietary articles and their preparation; can furnish first-class reference to good house of business. "William," c/o Orridge & Co., 32 Ludgate Hill, E.C.

**TRAVELLER**.—Young and energetic man seeks engagement to represent Drug and Sundry house; acquainted with England, Scotland, and Ireland; moderate salary. "Vox," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## MISCELLANEOUS.

*Special charges are made for Advertisements under this heading, which can be obtained on application.*

**H. WISKEMANN**, Gravesend, Sole Agent for Dr. Christ's Apparatus for Ochemical-pharmaceutical Laboratories, for Distilling by Vacuum Process, &c.

**A GENTS** wanted, London and Midland Counties, for sale of Proprietary Articles. Apply, giving references, to A. & J. Warren, Wholesale Druggists, 23 and 24 Redcliff Street, Bristol.

**AGENCY**.—An Indian firm of Perfumers and Soap Manufacturers desire to appoint an Agent in Great Britain for the sale of a patent Odoriferous Bouquet and Novelty Perfume: good terms will be given to a suitable person or firm. Reply, R. H. B. 8/55, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**CHEMISTS'** Shop-fittings.—The entire fittings, comprising 15 run of mahogany-fronted drawers, shelving, cornice above, 10 feet mahogany-top counter, 6 feet plate-glass wall-case, desk, window-enclosure, ointment-jars, 260 gold-labelled shop-rounds, 4 carboys, dispensing screen with mirror; £20 the lot, or offer. Revell, 394 King's Road, Chelsea.

**CHEMISTS'** Shop-fittings; second-hand; great bargain; range of mahogany-fronted drawers, shelving, &c., complete; mahogany-fronted counter, desk and case, and counter-case; £25 the lot; cost £100; also an immense quantity of other fittings, glass wall and counter cases, dispensing-screens, counters, bottles, and every requisite for fitting up. Philip Josephs, 54 Old Street, City Road, London, E.C.

**BOWLING & GOVIER** have a lot of first-class Chemists' fittings to be sold, great bargains for cash.—Side of shop, 12 ft. long, drawers, shelves, and cornices; mahogany and plate-glass wall-cases, 8 ft. long; dispensing-counters 5 ft. and 6 ft. long; serving-counters with glass-case fronts, 10 ft. long; desks and cases, counter-cases, sponge-cases, and a large quantity of Chemists' drawers, shelves, and cornices of best make, to be sold cheap. Address, Gun Street, Brushfield St., Bishopsgate, London.

**CHEMISTS'** Shop Fixtures; large variety, new and second-hand, including handsome mahogany wall-case, glass doors (top and bottom), movable shelves, and lift-up circular flaps to centre; ranges of mahogany drawers with bevelled-glass labels and knobs, shelving above, lockers below; plate-glass and mahogany dispensing-screens, counters, flat and bent-front counter-cases, counter-desks, whole fittings for high-class Chemists' shops; estimates free. Matthews, 14 Manchester Street, Liverpool.

**CHEMISTS'** Shop Fittings.—12 ft. range of 60 mahogany-fronted drawers, glass labels, glass knobs, stained lockers below, mahogany-fronted shelving above, and mahogany cornice, complete, £12 10s.; mahogany bent plate-glass counter-case, display-shelves, mirror backs, 6 ft., 92s. 6d.; 5 ft., 77s. 6d.; mahogany dispensing-screen, mirror centre show-cases, each side written tablets; marble slab, £5 17s. 6d.; shops fitted cheap. Mills, shop-fitter, show-case manufacturer, 203 City Road, London, E.C.

**SURPLUS** Fittings, to Clear.—Three 2-gallon carboys, 5s. each; pill-machine, nest of 6 mortars and pestles, and label-drawer, 20s.; mahogany counter-desk, with 2 drawers in front, 10s.; about 3 doz. pale blue gold-labelled ointment and extract jars, 25s.; 6 ft. mahogany nest of 36 drawers, with bottle-lockers under, £3; mahogany nest, 3 ft. by 2 ft. 6 in., containing 19 drawers, with 2 dummy fronts to match, forming poison-cupboard doors, £2 10s.; 4 ft. 6 in. by 2 ft. mahogany-fronted dispensing-screen, 10s.; or £7 10s. the lot. Call and see them. "Manager," 92 St. John's Road, Hoxton, N.

## INSTITUTE OF DENTAL TECHNOLOGY AND SCHOOL OF MECHANICAL DENTISTRY.

**SPECIAL** Probationary Manual Training Course; Wood, Metal (Vice, Lathe, and Forge), and Elementary Art Work; fee £21 for three months, 38 hours per week; number limited. Address, "Principal," 4 Langham Chambers, London, W.

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